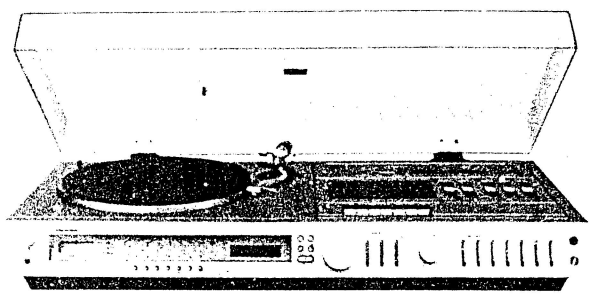
TOSHIBA

STEREO MUSIC CENTRE

SM-3650



SPECIFICATIONS

GENERAL

Power Source:	220V 50Hz for Europe 240V 50Hz for United Kingdom
Power Consumption:	115W
System Dimensions:	810(W) x 185(H) x 435(D)mm
System Weight	17kg

AMPLIFIER

Music Power:	Total 65W, 1% THD (4 ohms)
Continuous Power:	2 x 30W, 1% THD (4 ohms) (Single Channel Driven) 2 x 22W, 1% THD (4 ohms) (Both Channels Driven) 2 x 20W, 1% THD (8 ohms) (Single Channel Driven) 2 x 17W, 1% THD (8 ohms) (Both Channels Driven)
Frequency Response:	20 Hz – 40,000 Hz (±3 dB)
Difference Output:	±2 dB
Crosstalk Attenuation:	55 dB at 1 kHz
Signal to Noise Ratio:	60 dB
Sensitivity at Rated Power Output:	Moving Magnet Cartridge: 3.5mV (Maximum Capability 100 mV) at 1 kHz Tape in: ≦0.5V (DIN)
Input Impedance:	Tape in: 100k ohms at 1 kHz
Recording Output:	0.3 mV/k ohms
Tone Controls:	Bass: ±10 dB at 100 Hz Treble: ± 10 dB at 10 kHz
Loudness:	5 dB at 100 Hz
Headphones:	Recommended Impedance: More than 8 ohms

TUNER

Frequency Range:	FM 88 – 104 MHz SW 5.9 – 12 MHz MW 525 – 1605 kHz LW 150 – 290 kHz

FM BAND

Aerial:	External Aerial (300 ohm)
Usable Sensitivity:	Mono: 5μV Stereo: 8μV
Signal to Noise Ratio:	Mono 58 dB (40 kHz, deviation at 1 kHz)
Distortion at 1 kHz:	0.3%(40 kHz deviation)
AM Suppression:	40 dB
Separation at 1 kHz:	35 dB

AM BAND

Aerial:	LW, MW, Ferrite core aerial SW, External aerial
Usable Sensitivity: (IEC 500 mW/4 ohms)	
SW: (8.5 MHz):	30μV
MW: (1000 kHz):	250μV/m
LW: (200 kHz);	700μV/m

TURNTABLE

Drive System:	Belt Drive
Motor:	AC 4-pole Synchronous
Turntable Platter:	30 cm Diameter (500g)
Speed:	33-1/3 & 45 r.p.m.
Wow and Flutter:	Less than 0.1% (w.r.m.s.)
Signal to Noise Ratio:	More than 45 dB
Cartridge (MM):	C-52M
Stylus (Diamond):	N-52D
Tracking force:	2.5 ±0.5g

CASSETTE RECORDER

Usable Tape:	Compact cassette
Tape Speed:	4.75 cm/s
Recording System:	AC Bias
Erasing System:	AC Erase
Track System:	4-track, 2-channel Stereophonic
Heads:	Record/Playback Head, Erase Head
Frequency Response:	40 Hz – 10,000 Hz (±3 dB)
Signal to Noise Ratio:	55 dB

ACCESSORIES

FM "T" Shaped Room Aerial
EP Record Adaptor
Microphone (United Kingdom only)

Specifications are subject to change without notice.

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TABLE OF CONTENTS

1. OPERATING INSTRUCTIONS
   - 1-1 FRONT VIEW . . . 3
   - 1-2 BACK VIEW . . . 3
   - 1-3 TOP VIEW . . . 4
2. DISASSEMBLY INSTRUCTIONS
   - 2-1 CASSETTE DECK REMOVAL . . . 4 to 5
   - 2-2 PLAYER REMOVAL . . . 5
   - 2-3 CABINET REMOVAL . . . 5
   - 2-4 DIAL CORD STRINGING . . . 6
   - 2-5 CARTRIDGE AND STYLUS REPLACEMENT . . . 6
3. ALIGNMENT POINTS
   - 3-1 RADIO . . . 7
   - 3-2 CASSETTE DECK . . . 7
4. ALIGNMENT INSTRUCTIONS
   - 4-1 MW ALIGNMENT . . . 8
   - 4-2 LW ALIGNMENT . . . 9
   - 4-3 SW ALIGNMENT . . . 9
   - 4-4 FM ALIGNMENT . . . 10
   - 4-5 FM STEREO ALIGNMENT . . . 11
   - 4-6 CASSETTE DECK ALIGNMENT . . . 12
5. DIGITAL CLOCK . . . 13 to 14
6. PRINTED CIRCUIT BOARDS (BOTTOM VIEW)
   - 6-1 RADIO P.C.B. . . . 15
   - 6-2 TONE P.C.B. . . . 16
   - 6-3 SUPPLY P.C.B. . . . 16
   - 6-4 VOLUME P.C.B. (PRESET) . . . 17
   - 6-5 LED & SWITCH P.C.B. (PRESET) . . . 17
   - 6-6 POWER P.C.B. . . . 17
   - 6-7 SWITCH P.C.B. (TIME SET) . . . 17
   - 6-8 METER LAMP P.C.B. . . . 17
   - 6-9 SWITCH P.C.B. . . . 18
   - 6-10 HALL P.C.B. . . . 18
   - 6-11 TIMER P.C.B. . . . 18
   - 6-12 MOTOR GOVERNOR P.C.B. . . . 18
   - 6-13 SUPPLY P.C.B. (PLAYER) . . . 18
   - 6-14 PHONO P.C.B. (PLAYER) . . . 18
   - 6-15 CASSETTE DECK P.C.B. . . . 19
   - 6-16 FM BLOCK P.C.B. AND DIAGRAM . . . 20
   - 6-17 AF P.C.B. AND DIAGRAM . . . 21
   - 6-18 IF BLOCK P.C.B. AND DIAGRAM . . . 22
   - 6-19 EQUALIZER BLOCK P.C.B. AND DIAGRAM . . . 23
   - 6-20 DOLBY BLOCK P.C.B. AND DIAGRAM . . . 24
7. BOTTOM VIEW OF P.C.B. AND WIRING
   - 7-1 RADIO . . . 25
   - 7-2 CASSETTE DECK . . . 26
8. SCHEMATIC DIAGRAM
   - 8-1 RADIO . . . 27
   - 8-2 CASSETTE DECK . . . 28
9. EXPLODED VIEW
   - 9-1 CABINET . . . 29
   - 9-2 PLAYER . . . 30
   - 9-3 CASSETTE PANEL . . . 31
   - 9-4 MECHANISM . . . 32
10. EXPLODED VIEW PARTS LIST
    - 10-1 MECHANISM AND CASSETTE PANEL PARTS . . . 33 to 34
    - 10-2 CABINET PARTS . . . 34 to 35
    - 10-3 PLAYER PARTS . . . 35
11. ELECTRICAL PARTS LIST . . . 36 to 42

CAUTION ON HANDLING FOR DIGITAL CLOCK LSI

Take care to avoid static electricity as it can easily damage the LSI used in model SM-3650.
1. Never touch the terminal of LSI with bear fingers.
2. Never bring the terminal of LSI into contact with other materials.
3. Use the conductive rubber foam to keep the LSI.
4. When using a soldering iron, it is recommended to connect it to the ground.

1. OPERATING INSTRUCTIONS

1-1 FRONT VIEW

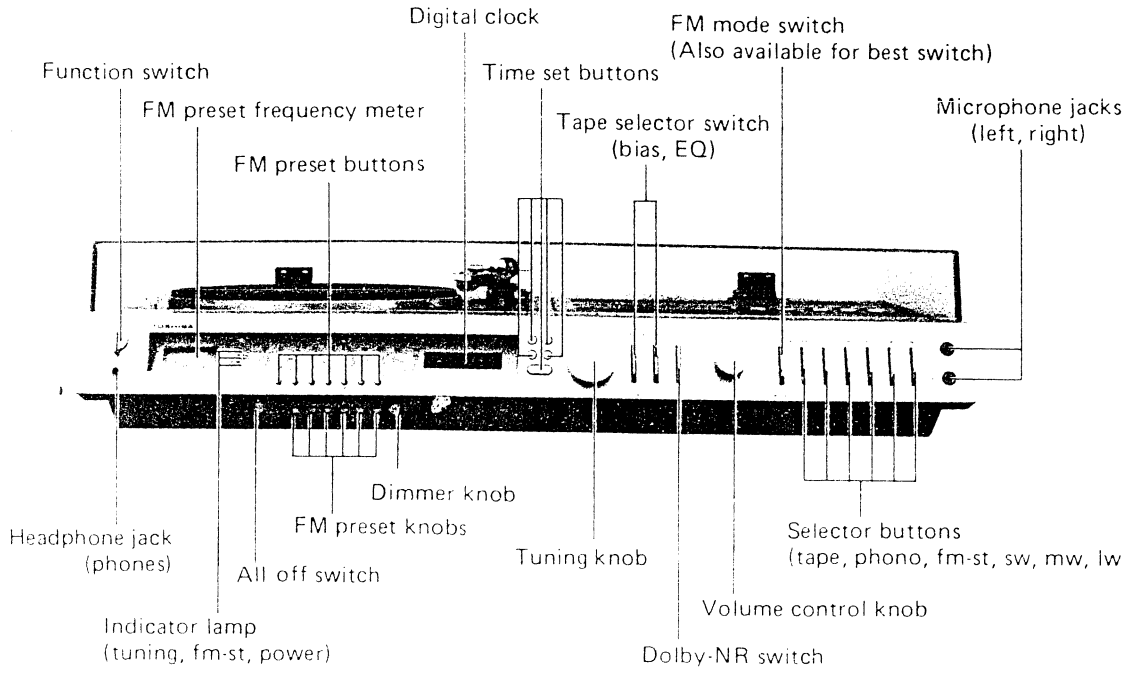


Figure 1.

1-2 BACK VIEW

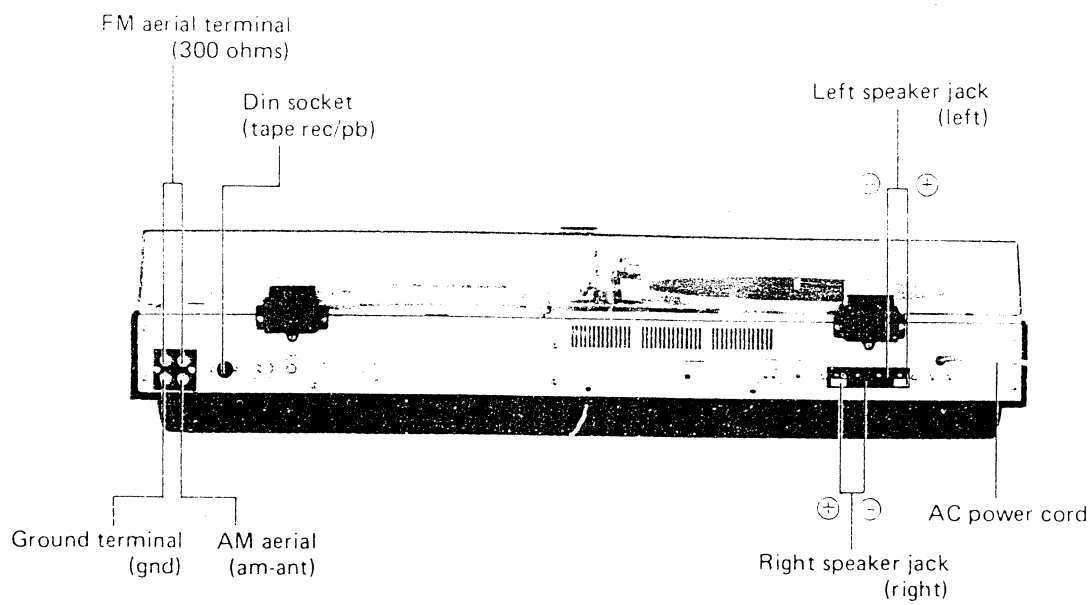


Figure 2.

1-3 TOP VIEW

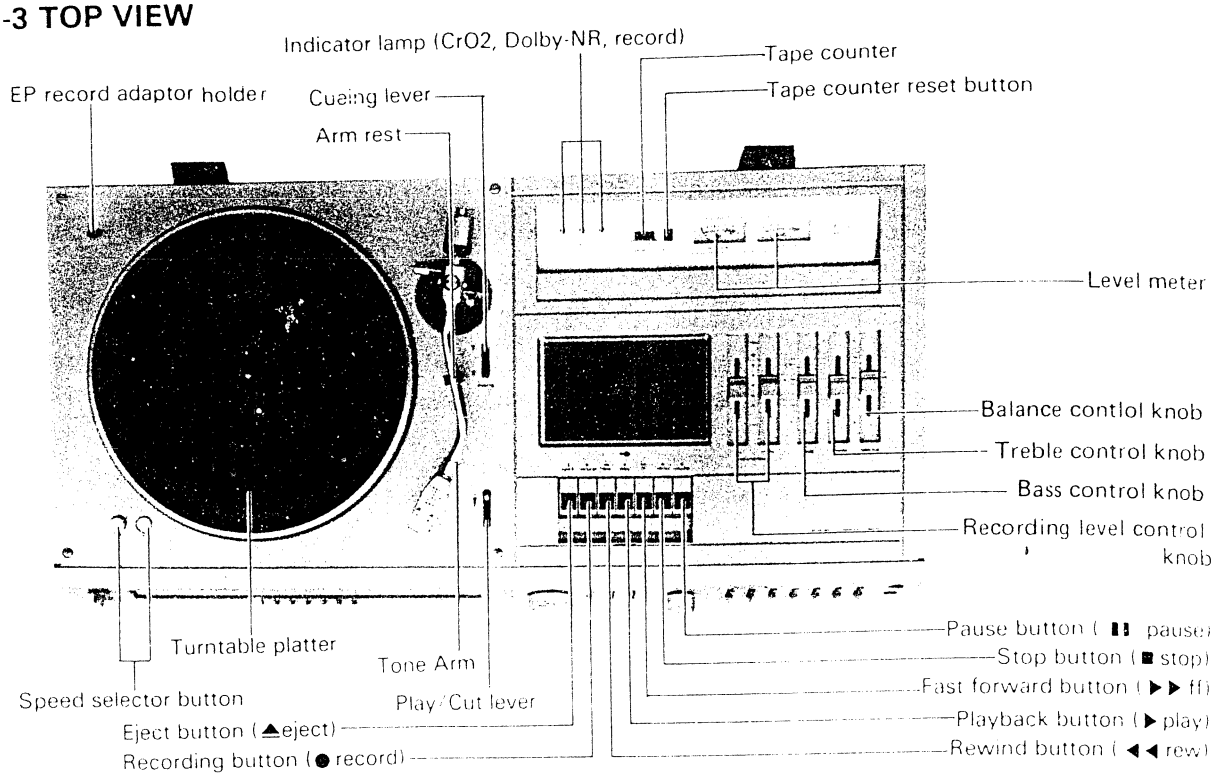


Figure 3.

2. DISASSEMBLY INSTRUCTIONS

2-1 CASSETTE DECK REMOVAL

Cassette Panel Removal

1. Take off five knobs marked (■) as shown in figure 4.
2. Lift up two screw covers marked (★) used in each recessed portion, and remove six screws marked (★) as shown in figure 4.
3. Then the cassette panel can be removed.

Cassette Chassis Removal

1. Remove the six screws marked (●) as shown in figure 5 and disconnect two 13P female connectors and a 7P female connector from their male connectors as shown in figure 6. and 7.
2. Then the chassis can be completely removed from the cabinet.

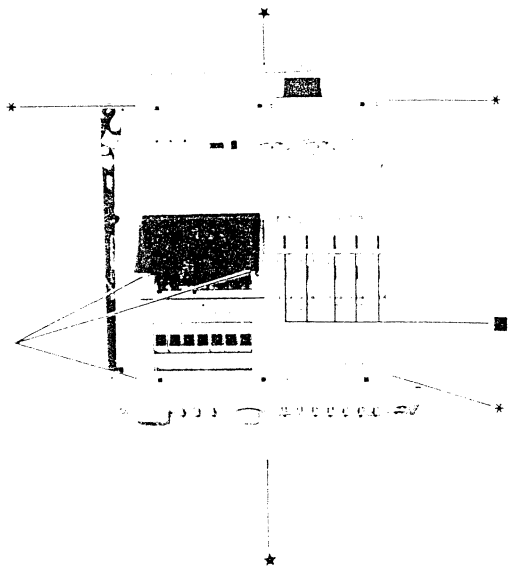


Figure 4.

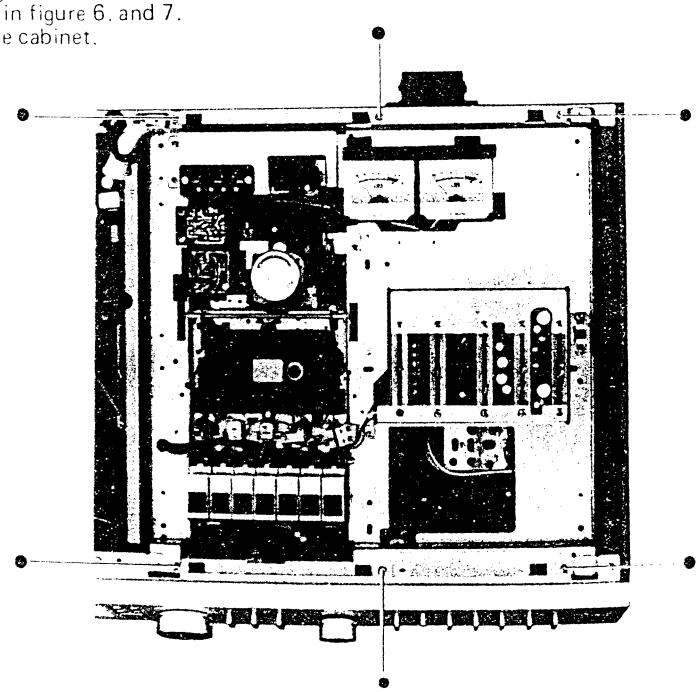


Figure 5.

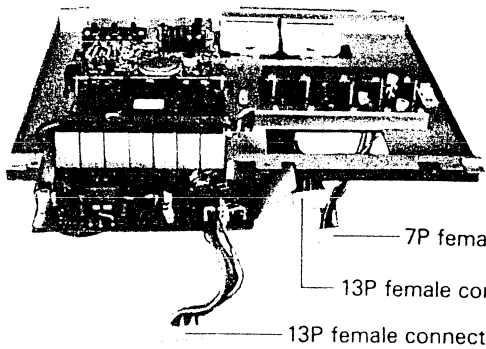


Figure 6.

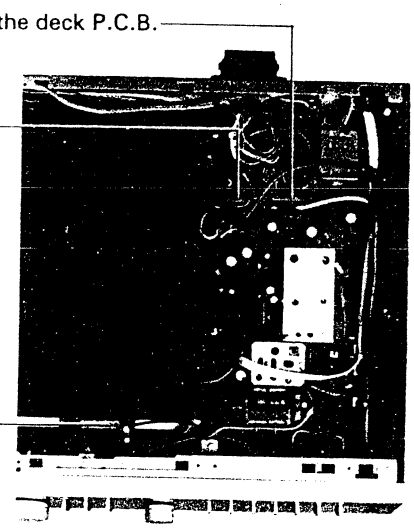
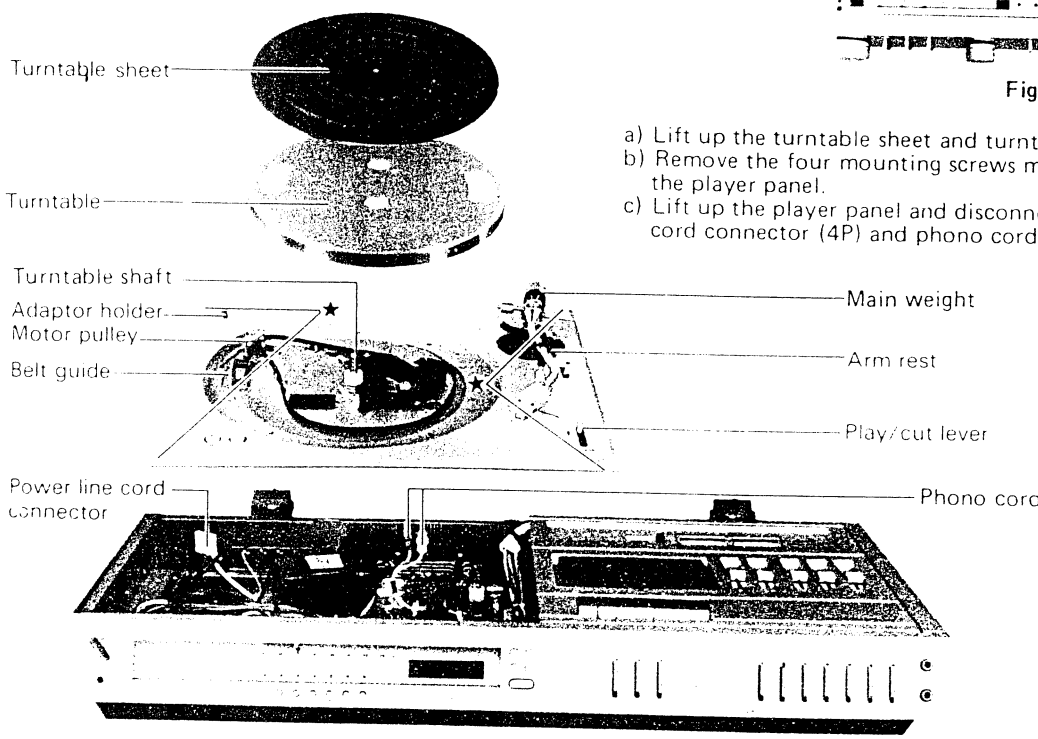


Figure 7.

2-2 PLAYER REMOVAL



a) Lift up the turntable sheet and turntable.
b) Remove the four mounting screws marked (★) from the player panel.
c) Lift up the player panel and disconnect the power line cord connector (4P) and phono cord.

Figure 8.

2-3 CABINET REMOVAL

Remove the nine screws marked (⁘) as shown in figure 9. When you reassembly the set, you should use the three tapping screws Ⓐ remove from right side of the cabinet.

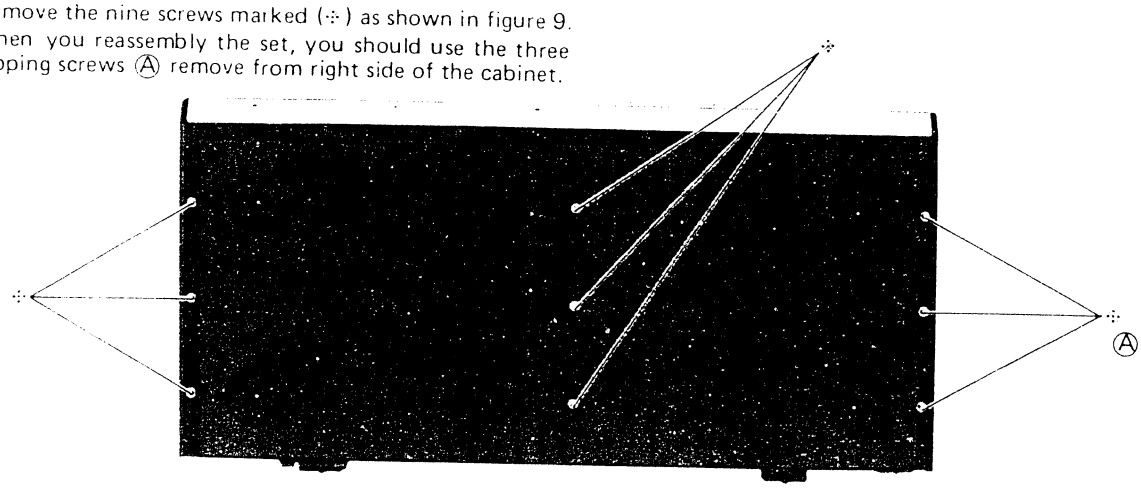


Figure 9.

2-4 DIAL CORD STRINGING

a. Set the tuning capacitor to the maximum capacitance (fully counterclockwise position).

b. Wind the dial cord in the numerical sequence as shown in figure 10.

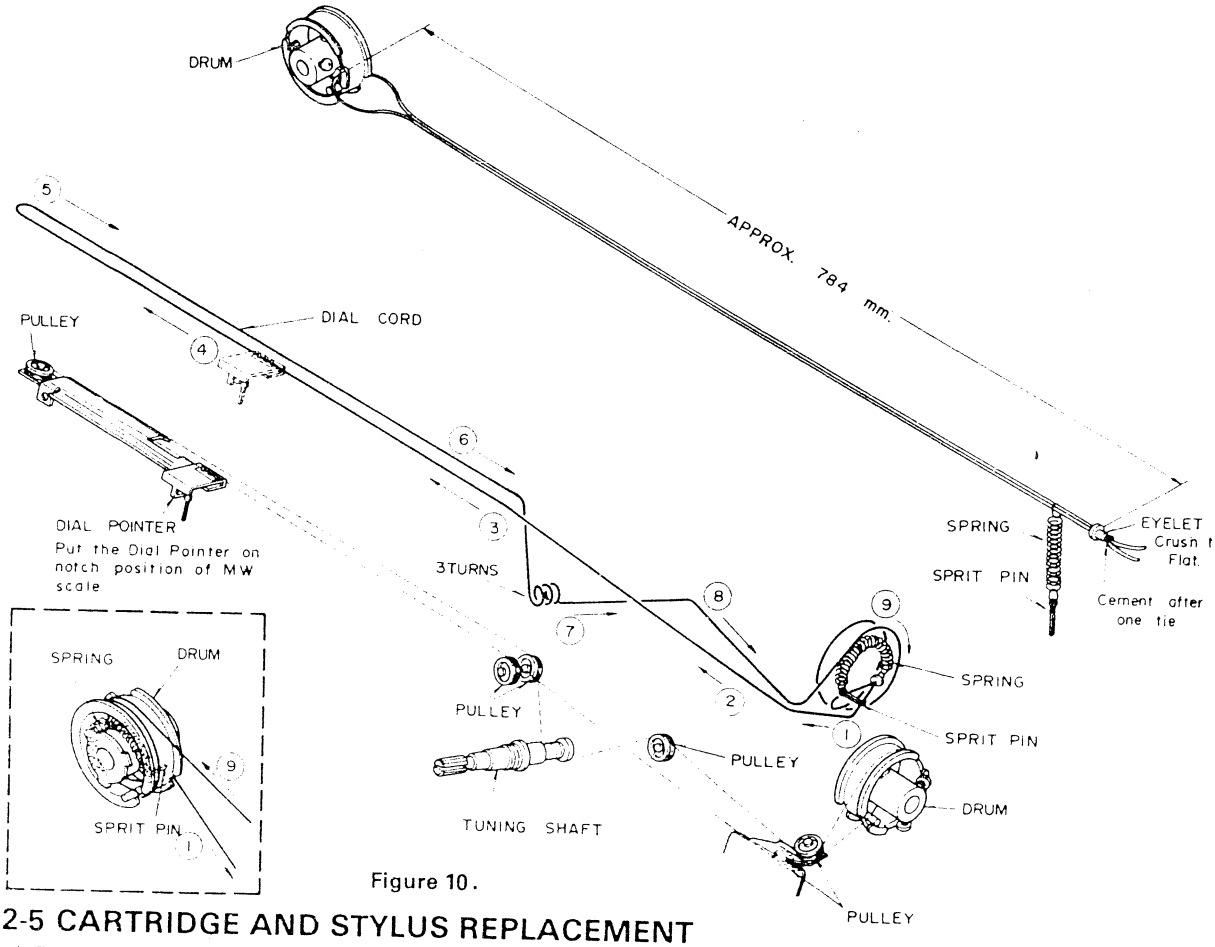


Figure 10.

2-5 CARTRIDGE AND STYLUS REPLACEMENT

a) Exchange of the stylus can be done as shown in figure 11.

b) Separate the headshell from the tonearm to the arrow direction and remove the two screws marked (⇄) as shown in figure 12.

c) Then, the cartridge can be removed from the headshell as shown in figure 13.

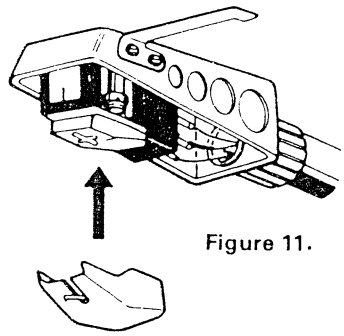


Figure 11.

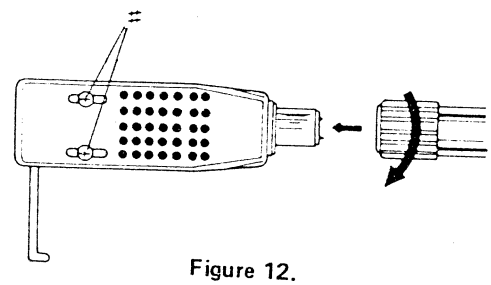


Figure 12.

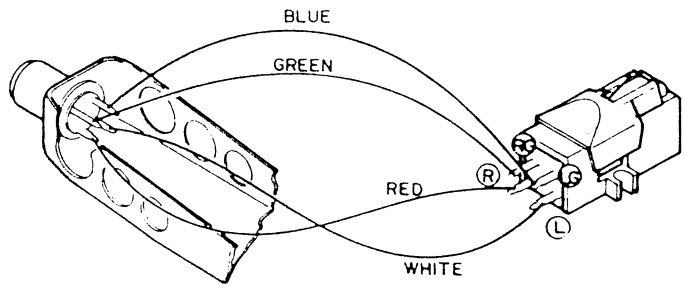


Figure 13.

3. ALIGNMENT POINTS

3-1 RADIO

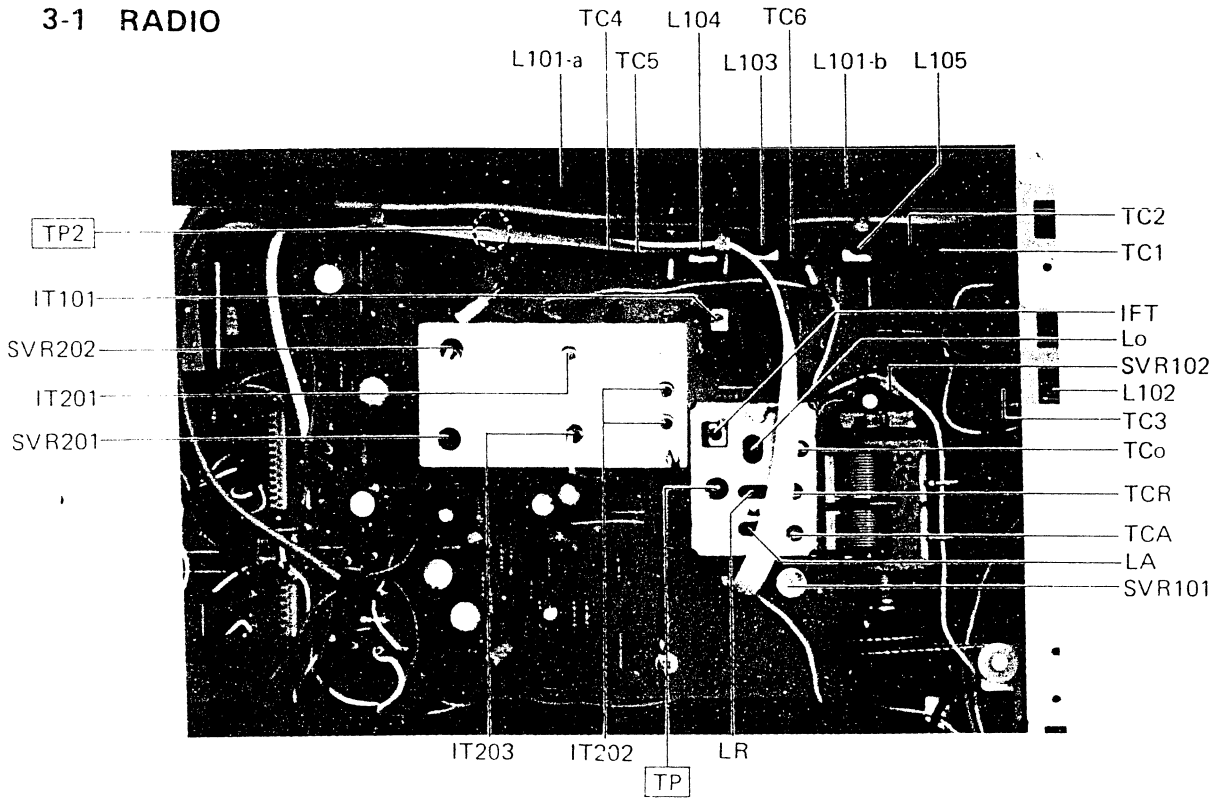


Figure 14.

3-2 CASSETTE DECK

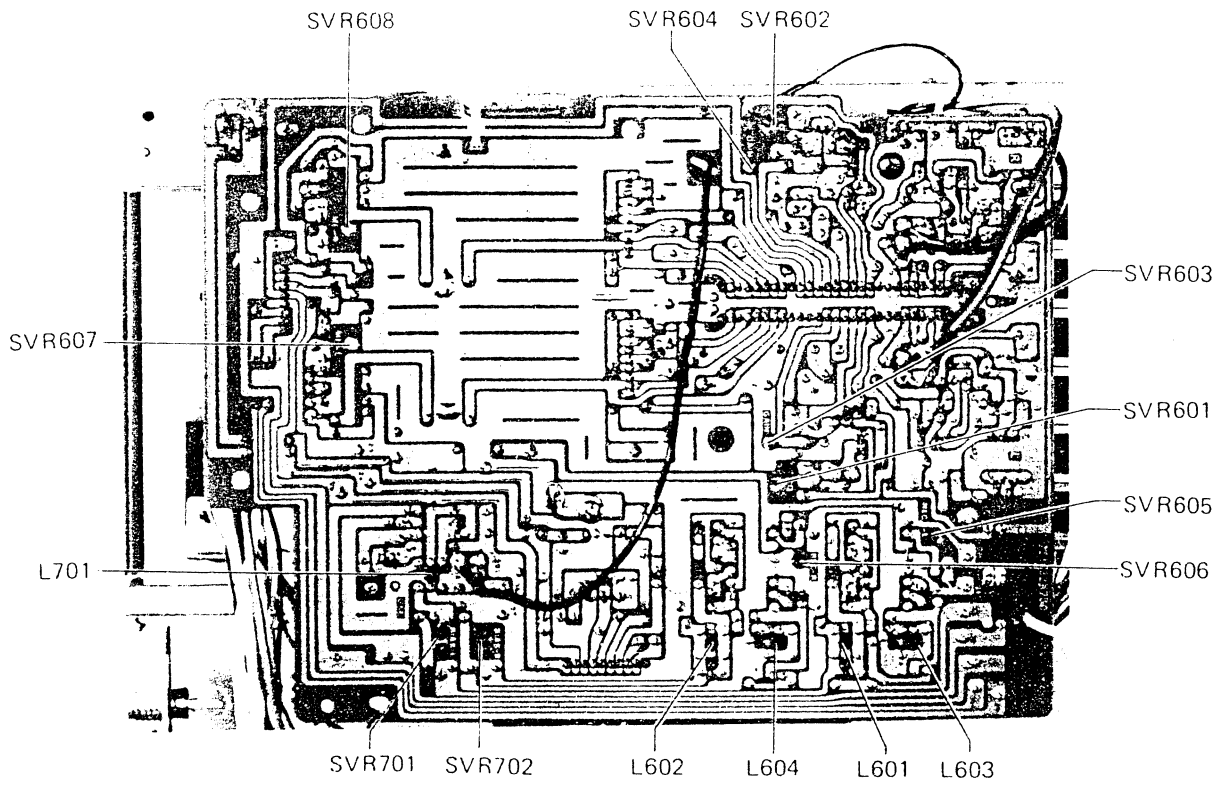


Figure 15.

4. ALIGNMENT INSTRUCTIONS

1. Sweep signal generator (Sweep range of at least 300 kHz, center frequency of 10.7 MHz.)
2. Signal generator with a frequency range of at least from 140 kHz to 13 MHz for AM, from 87 MHz to 110 MHz and 10.7 MHz for FM.
3. Oscilloscope with a wide range amplifier of approximately 100 kHz.
4. VTVM (Vacuum tube voltmeter)
5. Frequency Counter with a frequency range of at least 20.00 kHz.

NOTES:
1. During alignment keep the signal generator output at the lowest level where useable from the set can be maintained.
2. Ground connection of signal generator .... To chassis ground.
3. Generator modulation .... 400 Hz, 30%.
4. For alignment points, see schematic diagram and 3. ALIGNMENT POINTS.

4-1 MW ALIGNMENT

1. Set SELECTOR switch to MW.
2. Set signal generator frequency as listed in TABLE 1. MW ALIGNMENT CHART.
3. Proceed as outlined in the TABLE 1. MW ALIGNMENT CHART.

TABLE 1. MW ALIGNMENT CHART (See Figure 14, 16)

Step	Signal Generator Connection	Signal Generator Frequency	Radio Dial Setting	Meter or Oscilloscope Connection	Adjustment	Remarks
1	Test loop	460 kHz	Tuning gang fully counter-clockwise	VTVM across voice coil	IT101 IT202 IT203	Adjust for Maximum
2	"	510 kHz	Same as step 1	Same as step 1	L104	Same as step 1
3	"	1650 kHz	Tuning gang fully clockwise	Same as step 1	TC5	Same as step 1
4	Repeat steps 2 and 3 until no further improvement is noticed.					
5	Test loop	600 kHz	Tune to signal	Same as step 1	L101-b	Same as step 1
6	"	1400 kHz	Tune to signal	Same as step 1	TC2	Same as step 1
7	Repeat steps 5 and 6 until no further improvement is noticed.					

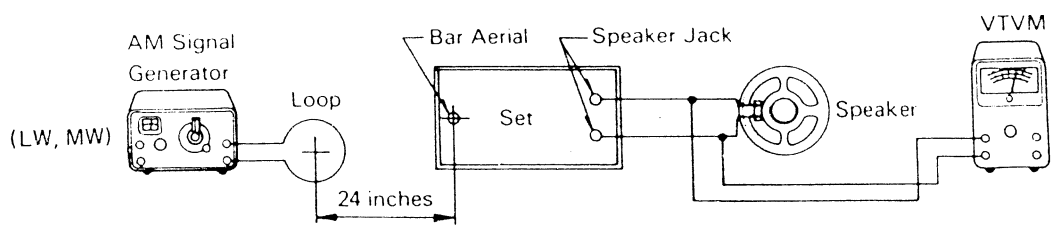


Figure 16.

4-2 LW ALIGNMENT

1. Set SELECTOR switch to LW.
2. Set signal generator frequency as listed in TABLE 2. LW ALIGNMENT CHART.
3. Proceed as outlined in the TABLE 2. LW ALIGNMENT CHART.

TABLE 2. LW ALIGNMENT CHART (See Figure 14, 16)

Step	Signal Generator Connection	Signal Generator Frequency	Radio Dial Setting	Meter or Oscilloscope Connection	Adjustment	Remarks
1	Test loop	145 kHz	Tuning gang fully counter-clockwise	VTVM across voice coil	L103	Adjust for maximum
2	"	295 kHz	Tuning gang fully clockwise	Same as step 1	TC4	Same as step 1
3	Repeat steps 1 and 2 until no further improvement is noticed.					
4	Test loop	160 kHz	Tune to signal	Same as step 1	L101-a	Same as step 1
5	"	270 kHz	Tune to signal	Same as step 1	TC1	Same as step 1
6	Repeat steps 4 and 5 until no further improvement is noticed.					

4-3 SW ALIGNMENT

1. Set SELECTOR switch to SW.
2. Set signal generator frequency as listed in TABLE 3. SW ALIGNMENT CHART.
3. Proceed as outlined in the TABLE 3. SW ALIGNMENT CHART.

TABLE 3. SW ALIGNMENT CHART (See Figure 14, 17)

Step	Signal Generator Connection	Signal Generator Frequency	Radio Dial Setting	Meter or Oscilloscope Connection	Adjustment	Remarks
1	I.E.C. Dummy Antenna	5.7 MHz	Tuning gang fully counter-clockwise	VTVM across voice coil	L105	Adjust for maximum
2	"	12.5 MHz	Tuning gang fully clockwise	Same as step 1	TC6	Same as step 1
3	Repeat steps 1 and 2 until no further improvement is noticed.					
4	I.E.C. Dummy Antenna	6.5 MHz	Tune to signal	Same as step 1	L102	Same as step 1
5	"	11.5 MHz	Tune to signal	Same as step 1	TC3	Same as step 1
6	Repeat steps 4 and 5 until no further improvement is noticed.					

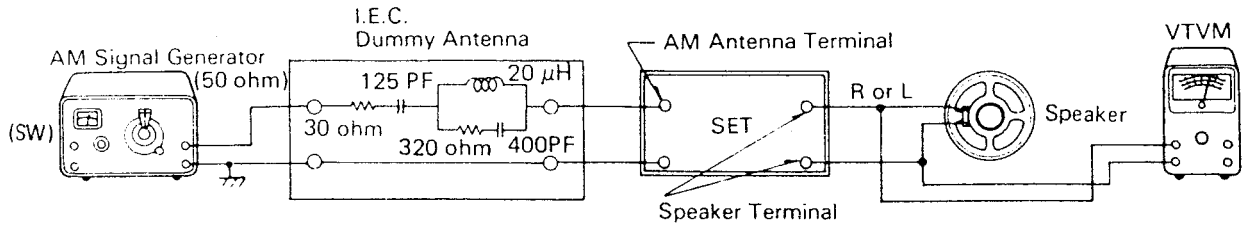
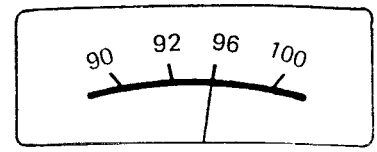


Figure 17.

4-4 FM ALIGNMENT



1. Set SELECTOR switch to FM-ST.
2. Push the manual button located among preset buttons.
3. Set signal generator frequency as listed in TABLE 4. FM ALIGNMENT CHART.
4. Proceed as outlined in the TABLE 4. FM ALIGNMENT CHART.

NOTE:
1. Before proceeding step 2 and 3, align FM frequency coverage by turning SVR101 (105 MHz) and SVR102 (87.7 MHz).
2. Frequency meter alignment: After aligning FM frequency coverage above, align SVR103 for the meter needle to come to the 96 MHz point as illustrated by pushing the preset button and by rotating the presetting knob 96 MHz tune to signal.

TABLE 4. ALIGNMENT CHART (See Figure 14, 18 &19)

Step	Signal Generator Connection	Signal Generator Frequency	Radio Dial Setting	Meter or Oscilloscope Connection	Adjustment	Remarks
1	Sweep Generator through buffer to TP(FM block)	10.7 MHz	Tuning gang fully counter-clockwise	Scope TP2' as shown in Figure 18.	IFT (FM block) IT201	See "S curve" in Figure 18
2	300 ohms matching pad	87.7 MHz	Same as step 1	VTVM across voice coil	SVR102 (Lo)	Adjust for maximum
3	Same as step 2	105 MHz	Tuning gang fully clockwise	Same as step 2	SVR101 (TCo)	Same as step 2
4	Repeat steps 2 and 3 until no further improvement is noticed.					
5	Same as step 2	88 MHz	Tune to signal	Same as step 2	LA LR	Same as step 2
6	Same as step 2	104 MHz	Tune to signal	Same as step 2	TCA TCR	Same as step 2
7	Repeat steps 5 and 6 until no further improvement is noticed.					

CAUTION:
When realigning the FM Receiving Frequency, the lower side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in West Germany.

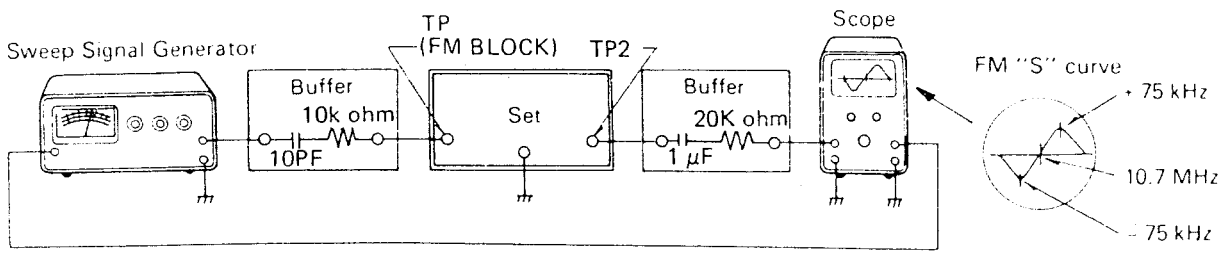


Figure 18.

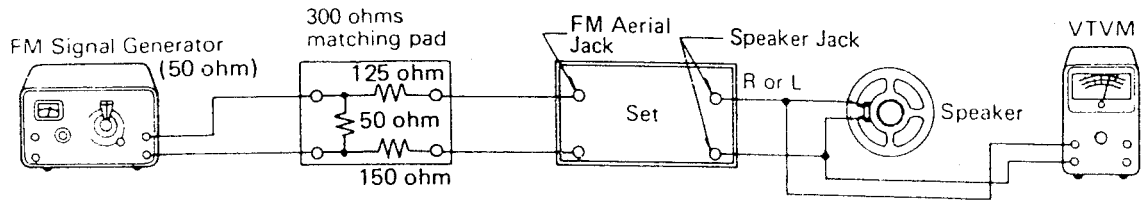


Figure 19.

4-5 FM STEREO ALIGNMENT

General Alignment conditions
1. RF signal input should be about 60 dB (1 mV). (0 dB= 1μV)
2. Set tuning gang to quiet point on dial.

Note:
Set the deviation meter by the signal of L = R and switch mode desired.

TABLE 5. FM STEREO ALIGNMENT CHART (See Figure 14, 20, and 21)

Step	Modulation Frequency	Modulation Mode setting	Modulation level setting	Output Indicator connection	Adjustment	Remarks
1				Frequency Counter across TP3, TP5 as shown in Figure 20. (at shunt TP2 and TP5)	BLOCK-IF SVR201 Semi-fixed resistor slightly	Adjust for 19.00 ± 0.03kHz
2	1000 Hz	Stereo R with pilot	90% (Main & Sub) (67.5 kHz Dev.) 10% (pilot) (7.5 kHz Dev.)	Oscilloscope or VTVM across voice coil of L ch.	BLOCK-IF SVR202 Semi-fixed resistor slightly (separation)	Adjust for minimum

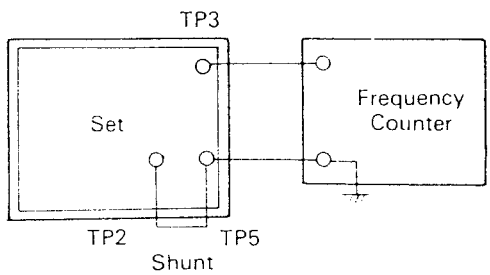


Figure 20.

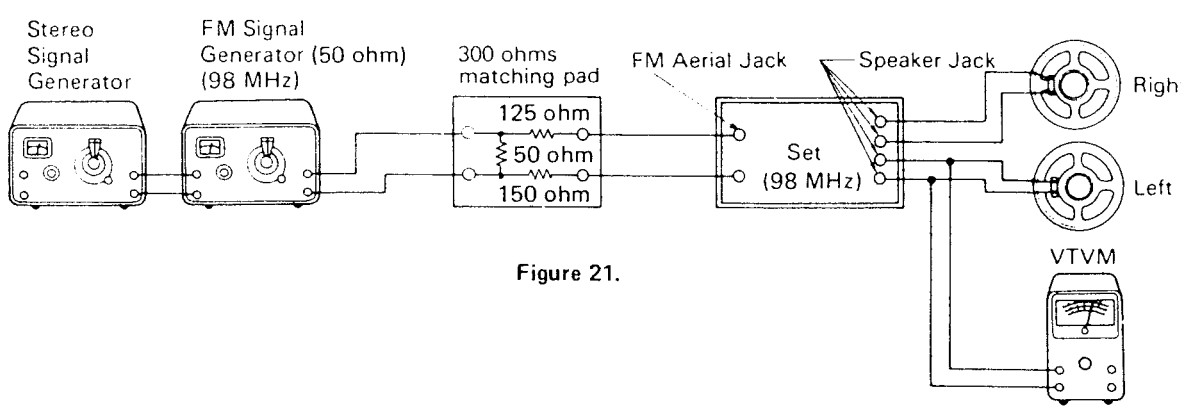
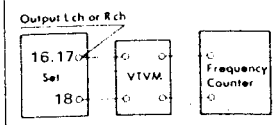
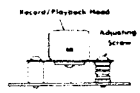
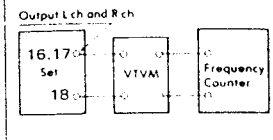
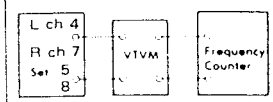
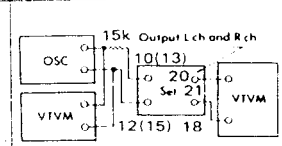
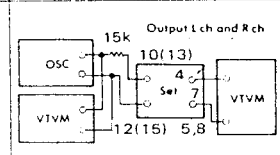
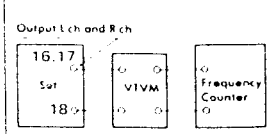


Figure 21.

4-6 CASSETTE DECK ALIGNMENT

TABLE 6. CASSETTE DECK ALIGNMENT CHART (See Figure 15, and Cassette Deck P.C. Board)

Step	Item	Adjustment	Performance	Test Point	Output Indicator Connected	Remarks	Connection
1	Tape Speed	GOVERNOR P.C.B. SVR902 (Main) SVR901 (Sub)	Test Tape MTT-111 (3000 Hz) Tape play back	Tape Deck Output (R ch or L ch)	VTVM Frequency Counter	Frequency 3000 Hz	
2	Record and Playback head azimuth adjustment		Test Tape MTT-114 (10 kHz) Tape Play Back	Tape Deck Output (R ch and L ch)	VTVM Frequency Counter	To maximum reading of VTVM Against lower output channel of L ch or R ch	
3	Tape bias Frequency	L701	Blank Tape Recording and Pause	Tape Deck P.C.B. across Point 4 and 5 (L ch) (Earth) across Point 7 and 8 (R ch) (Earth)	VTVM Frequency Counter	FM mode switch stereo 66.5 kHz FM mode switch mono 63.8 kHz	
4	Tape bias Current	SVR701 (L ch) SVR702 (R ch) L601 L602	Same as step 3	Same as step 3	VTVM	Normal position 2.9mV CrO_2 position 4.7mV No difference on current in FM mode switch shifting	Same as step 3
5	Meter reading	SVR607 (L ch) SVR608 (R ch)	Same as step 3	Tape Deck P.C.B. Point 20 and 18 (L ch) Point 21 and 18 (R ch)	OSC VTVM	Input signal 1 kHz 116mV Level meter 0 reading Output level 410mV	
6	Recording Current Adjustment	SVR605 (L ch) SVR606 (R ch)	Blank Tape Recording and pause	Tape Deck P.C.B. across point 4 and 5 (L ch) across point 7 and 8 (R ch)	OSC VTVM	Input signal 1 kHz 116mV 0.38mV output on test point (Output level 410mV)	
7	Peaking Adjustment (CrO_2 position)	L603 (L ch) L604 (R ch)	Same as step 3	Same as step 3	Same as step 6	Input signal 10 kHz 116mV 1.33mV output on test point	Same as step 6
8	Play Back Gain Adjustment	SVR603 (L ch) SVR604 (R ch)	Test Tape MTT-112 (333 Hz 0 dB) PLAYBACK position	Tape Deck output (R ch and L ch)	VTVM Frequency Counter	Output Level 650mV	
9	Playback Frequency Response Adjustment (Normal)	SVR601 (L ch) SVR602 (R ch)	Test Tape MTT-117L (Frequency response) PLAYBACK position	Tape Deck output (R ch and L ch)	VTVM Frequency Counter	Output Setting Level 333 Hz 205.5mV 10 kHz 205.5mV	Same as step 8

5. DIGITAL CLOCK

1. Time Display

Normal hours and minutes display
↓
Press the "sec" push-button
↓
Minutes (up to 9 minutes) and seconds display

Note: The clock display will blink on and off following a power failure. In this case, all settings will have to be readjusted (the blinking action will cease as soon as the readjustment is made).

2. Time Adjustment

Turn the function switch to the "time set" position.
↓
Adjust to the correct time (or any other desired time) by pressing the "ff" and "slow" push-buttons.

For time adjustment correct to the nearest second.

For time adjustment correct to the nearest minute.

Press the "sec" push-button for display of minutes and seconds.
↓
Keep the "sec" push-button depressed while pressing the "ff" push-button.
↓
The seconds column display will reset to 00 seconds, and then stop.
↓
Continue to keep both push-buttons depressed until the correct time (as announced by a radio station, or indicated by some other precision time keeper) corresponds with the display time.
↓
The moment that the correct time corresponds with the display time, release the "ff" push-button.
↓
The digital clock will then commence to count seconds.
↓
Only after several seconds have elapsed should the "sec" push-button also be released.
↓
Correct time will now be displayed in hours and minutes.
↓
Turn the function switch away from the "time set" position in order to avoid accidental upsetting of the correct time.

3. When Used as an Alarm

Turn the function switch to the "auto/sleep set" position.
↓
Press the "snooze/ auto" push-button. → The digital clock then displays the alarm time.
↓
While keeping the "snooze/auto" push-button depressed, press the "ff" and "slow" push-buttons to set the alarm at any desired time (except for the 9 minute period from the present time).
↓
Release the "snooze/auto" push-button. → The present time will again be displayed.
↓
Turn the function switch to the "on" position.

When using FM as the alarm.

Press the "FM" selector button.
↓
Tune to desired FM station, and adjust to suitable "alarm" listening level.

When using a cassette tape as the alarm.

Press the "tape" selector button.
↓
Load the desired tape into the cassette deck section, start up in playback mode, and press the pause button at the desired place.

Turn the function switch to the "auto" position.
↓
The alarm (FM radio or cassette tape) will start up at the preset alarm time.

To stop the alarm.

Press the "snooze/auto" push-button.
↓
The alarm will stop temporarily, and commence again 9 minutes later.

Turn the function switch to the "off" position.

To reset the alarm for the following day.

Turn the function switch to the "auto" position.

The set will come to a stop automatically at the 59 minute mark.
↓
When using the cassette tape, reset the tape ready for play again.

Note:
To check the preset alarm time, simply press the "snooze/auto" push-button. But do not press within the 9 minute period prior to the preset alarm time, otherwise the preset alarm time will be upset.

4. Using the Sleep Function

First prepare the radio or cassette tape for play.

When not necessary to change the sleep time setting

Turn the function switch to the "off" position.
↓
Press the "sleep" push-button. → The power supply is thus turned on. The sleep time is displayed.

To change the sleep time setting.

Turn the function switch to the "auto/sleep set" position.
↓
While keeping the "sleep" push-button depressed, press the "ff" or "slow" push-button to set the desired sleep time (59 minutes maximum).
↓
Turn the function switch to the "off" position.
↓
The set will turn off automatically when the preset sleep time has elapsed.

Note:
1) Cassette tape cannot be used for both sleep and alarm at the same time.
2) To make use of both the sleep and alarm functions, first set the alarm time, and then the sleep time, and finally turn the function switch to the "auto" position. After the set turns off at the end of the sleep time, the alarm will commence at the preset alarm time.
3) Release the play button if the tape is stopped before the end of the tape is reached.

5. Automatic (Unattended) Recording

Set the digital clock to the desired recording time in the same manner as described for alarm setting under section 3 above.
↓
Turn the function switch to the "on" position.
↓
Tune to the desired radio station.
↓
Load a blank cassette tape into the cassette deck.
↓
Press the pause button.
↓
Then press both the play and record buttons.
↓
Adjust recording level.
↓
Turn the function switch to the "auto" position.
↓
The power supply will turn on, and the recording commence automatically at the preset time.
↓
The power supply will turn off again, and the recording come to a halt automatically when the end of the tape is reached, or after 59 minutes has elapsed.

Note: Although the maximum recording time is 59 minutes, the recording may be stopped, and the power supply turned off before the end of the tape is reached. In this case, the stop button must be pressed to release the play and stop buttons.

6. When Used as a Stop Watch

Turn the function switch to the "time set" position.

Press the "slow" and "sec" push-buttons together.

The digital clock display stops.

Reset the display to 0 minutes 00 seconds by pressing the "ff" push-button.

Keep the "slow" and "sec" push-buttons depressed.

Release the "slow" push-button (but not the "sec" push-button) as soon as the "event" to be timed commences.

The clock will commence to count up seconds

Then release the "sec" push-button a few seconds later.

For an intermediate check of the time elapsed (on the stop watch) simply press the "sec" push-button.

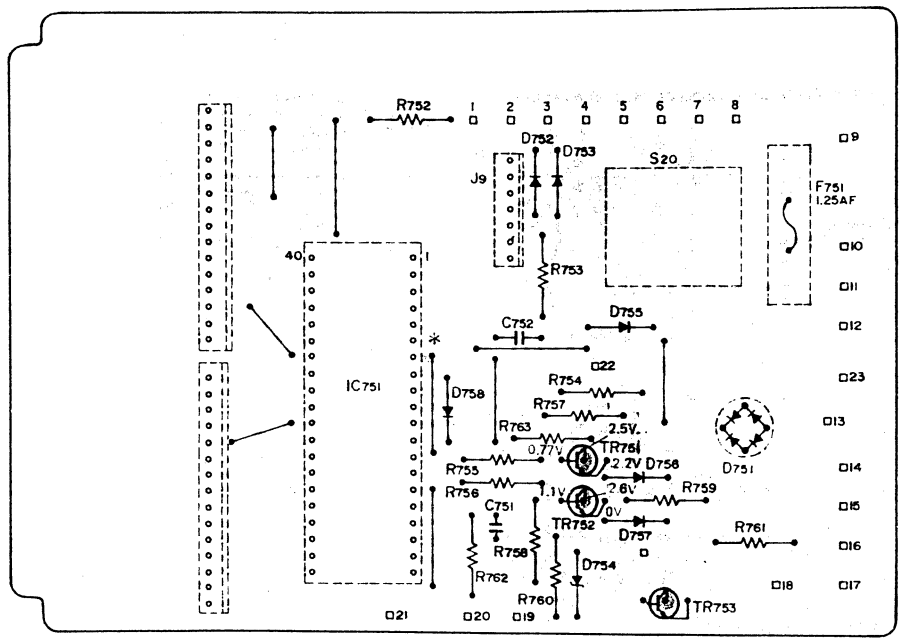
Then just before the end of the "event" being measured, press the "sec" push-button.

And press the "slow" push-button exactly at the same time that the "event" finishes.

The display will stop, showing the measured time in minutes and seconds.

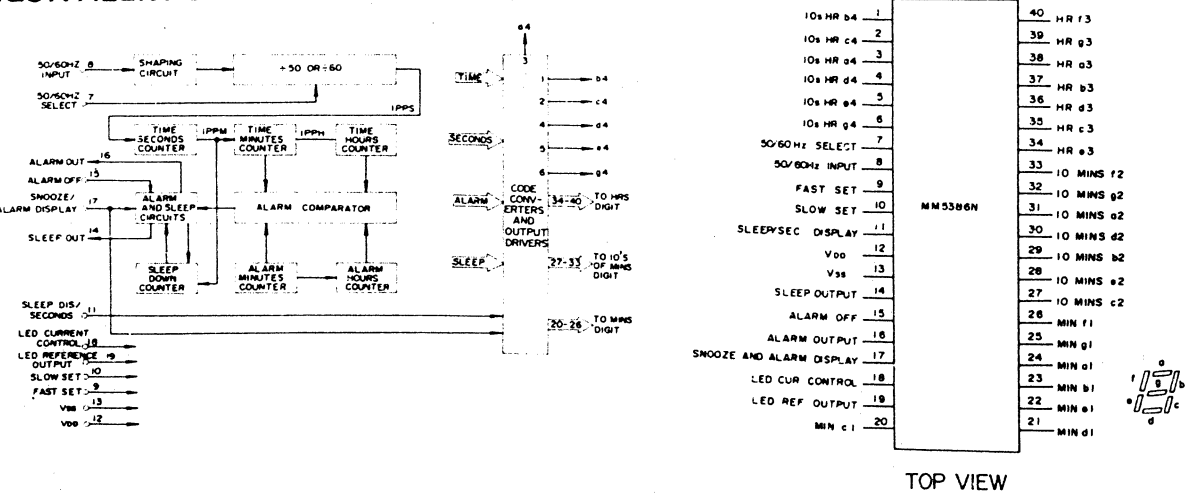
Note: After using the digital clock as a stop watch, it will be necessary to reset the correct time as described above under section 2).

CLOCK P.C.B.



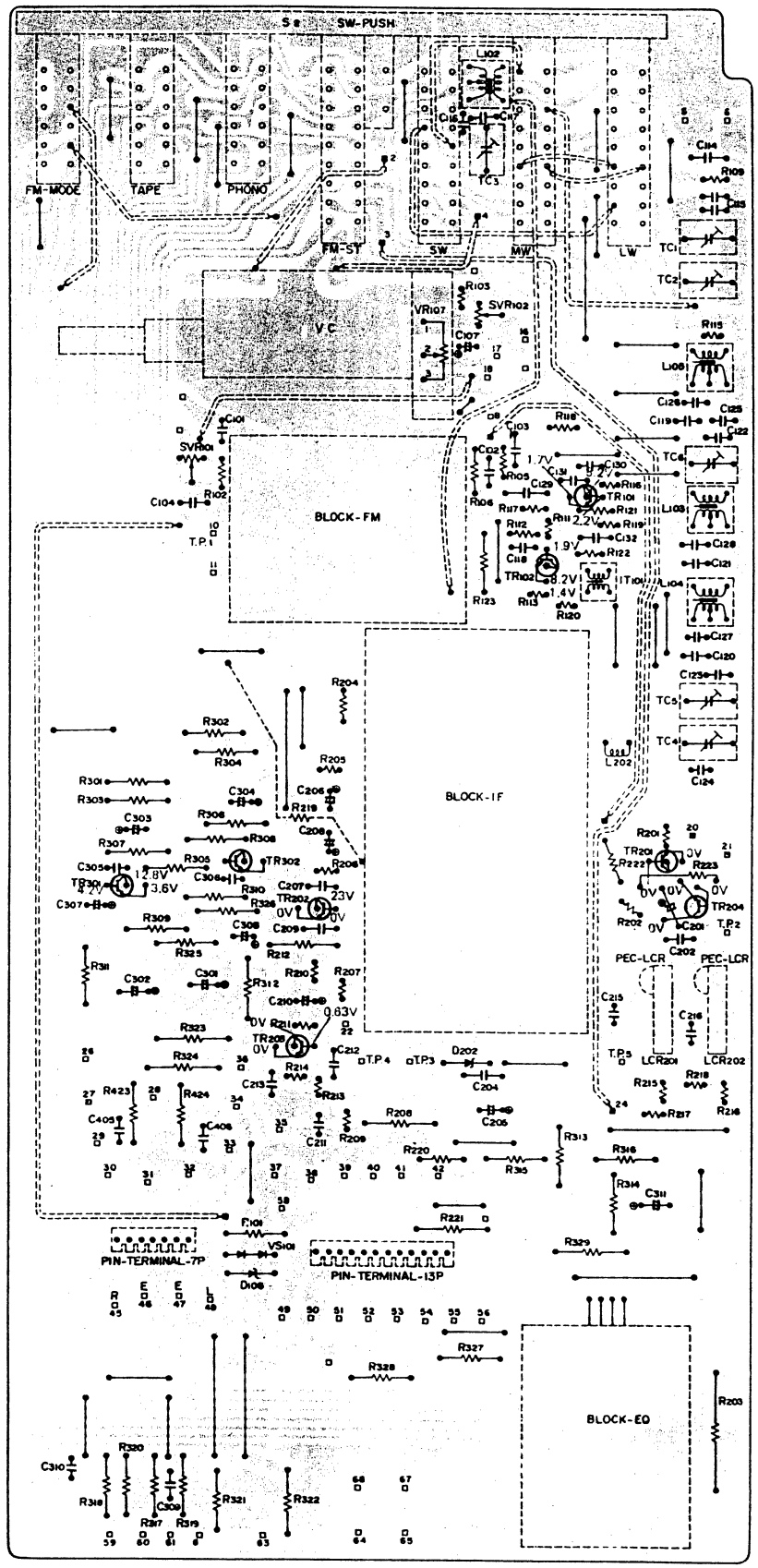
* When using with 60 Hz supply, cut this part of circuit pattern.

EQUIVALENT CIRCUIT OF LSI MM5386N

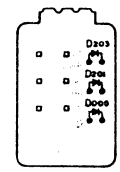


6. PRINTED CIRCUIT BOARDS (BOTTOM VIEW)

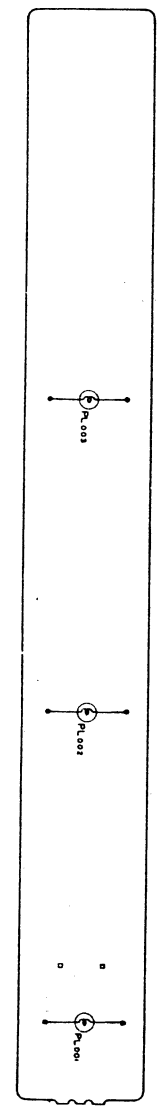
6-1 RADIO P.C.B.



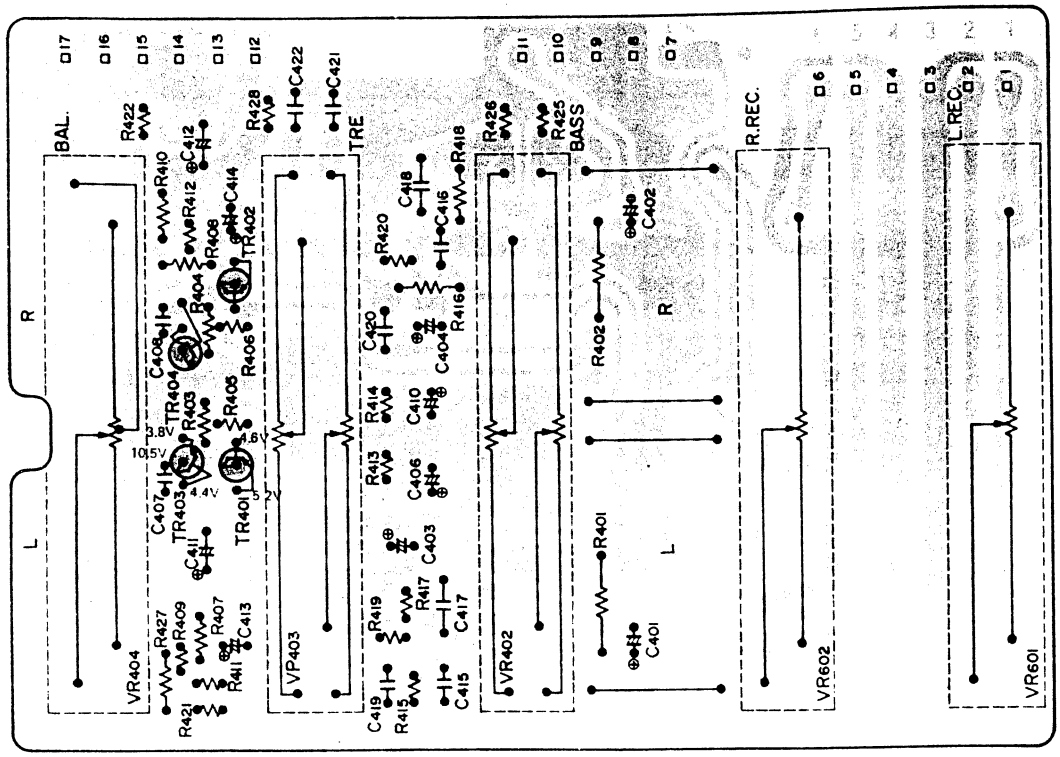
LED P.C.B.



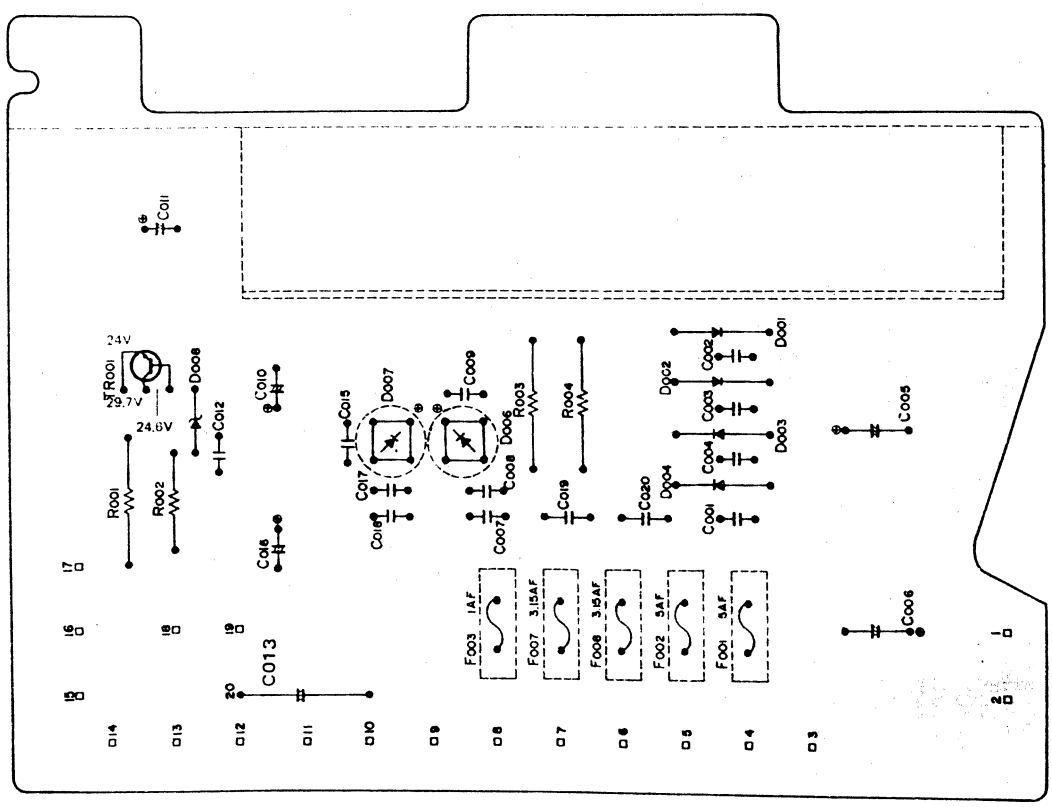
PILOT LAMP P.C.B.



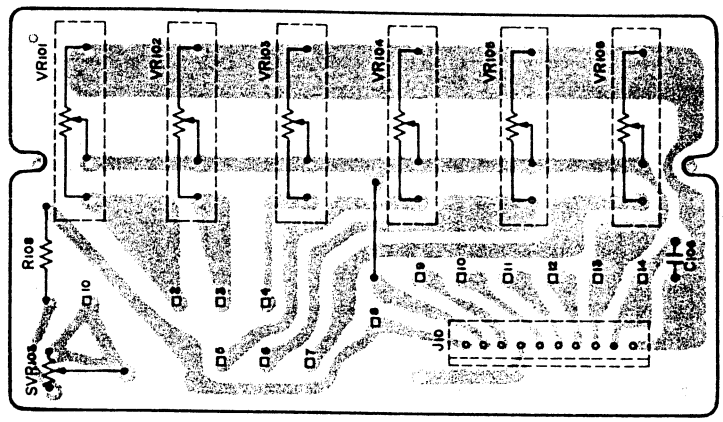
6-2 TONE P.C.B.



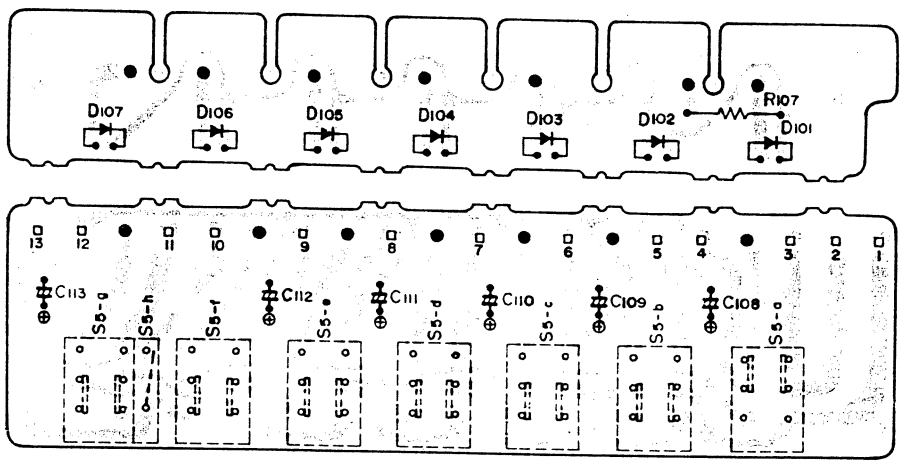
6-3 SUPPLY P.C.B.



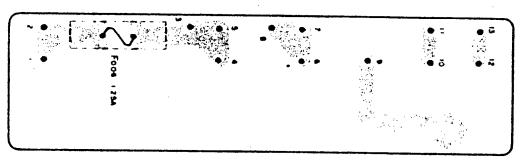
6-4 VOLUME P.C.B. (PRESET)



6-5 LED & SWITCH P.C.B. (PRESET)

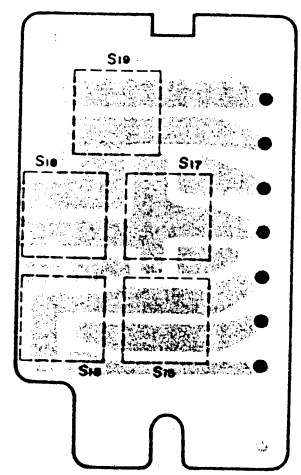


6-6 POWER P.C.B.



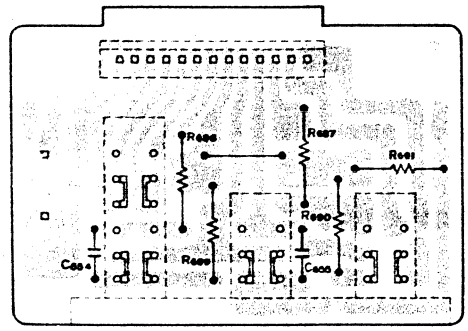
F006 is provided for United Kingdom only.

6-7 SWITCH P.C.B. (TIME SET)

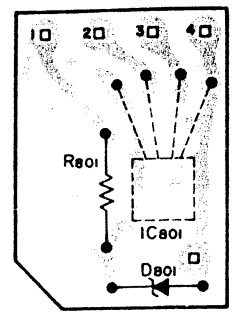


6-8 METER LAMP P.C.B.

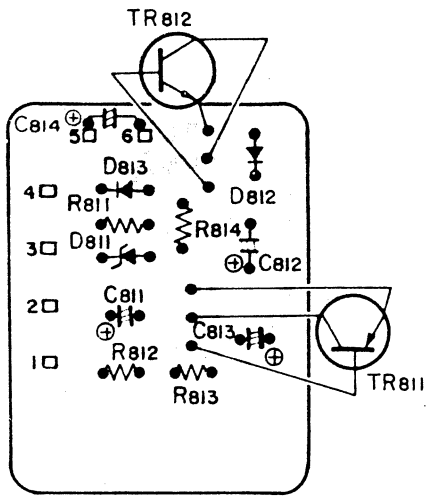
6-9 SWITCH P.C.B.



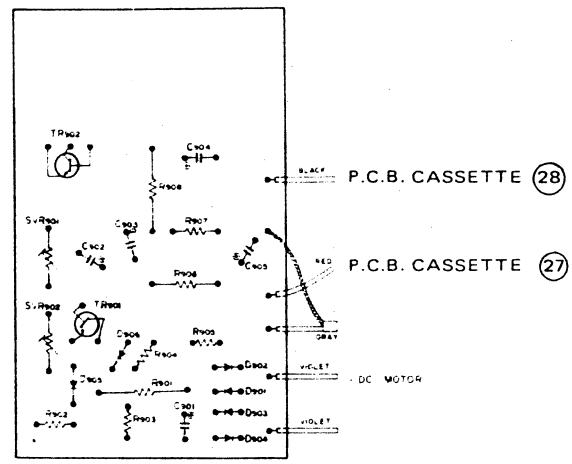
6-10 HALL P.C.B.



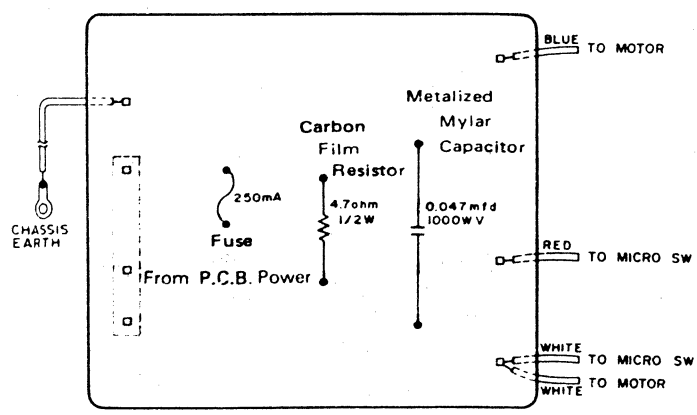
6-11 TIMER P.C.B.



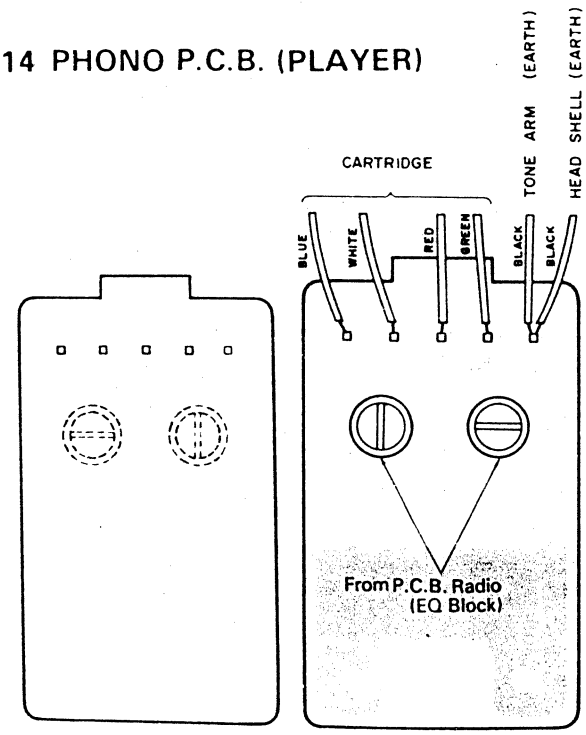
6-12 MOTOR GOVERNOR P.C.B.



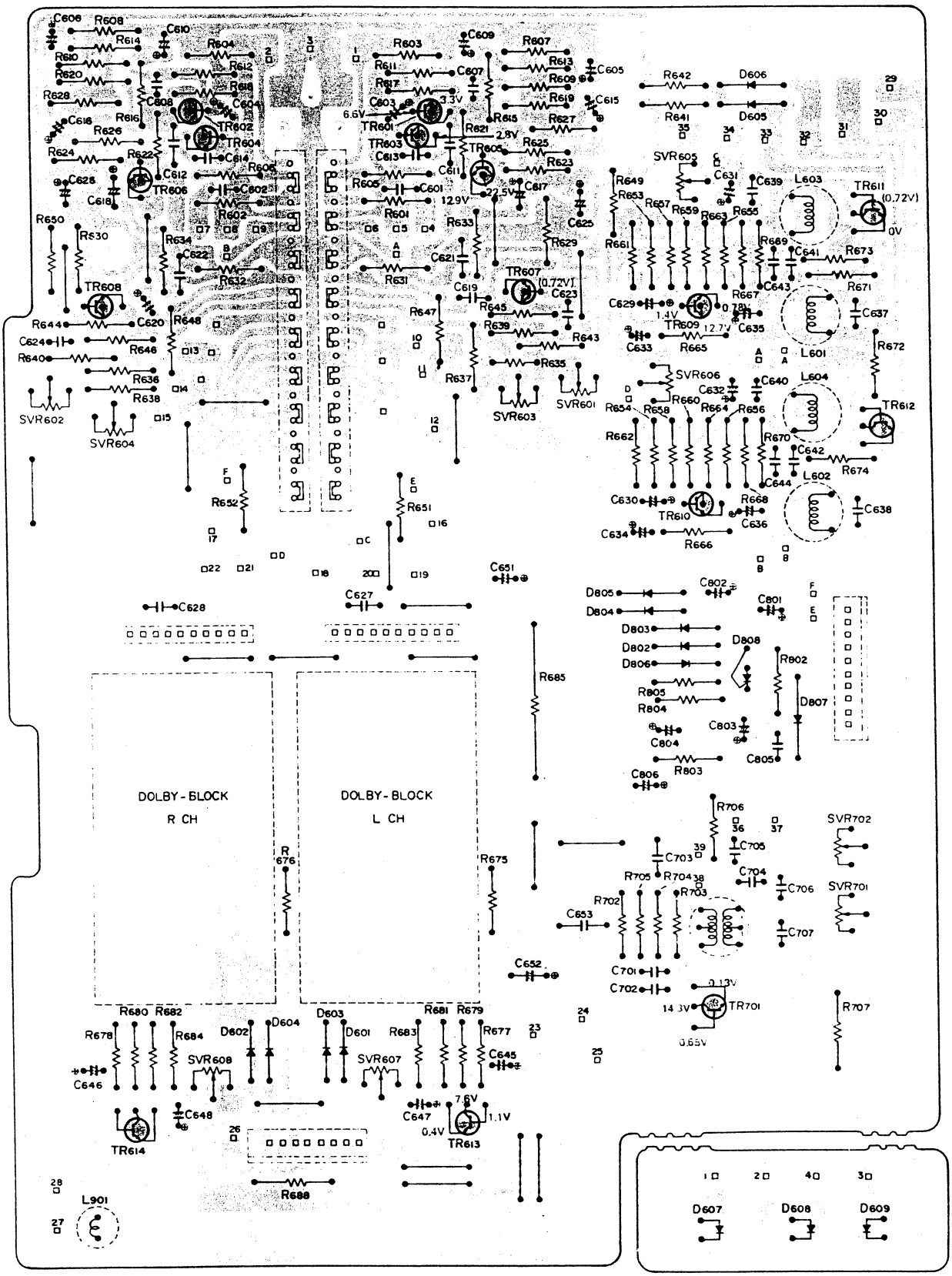
6-13 SUPPLY P.C.B. (PLAYER)



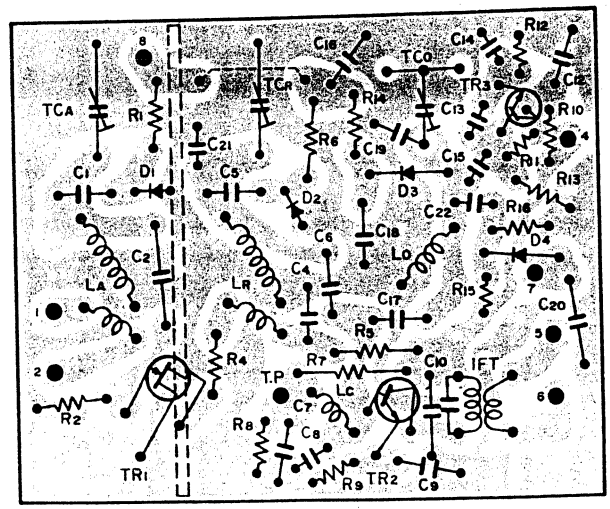
6-14 PHONO P.C.B. (PLAYER)

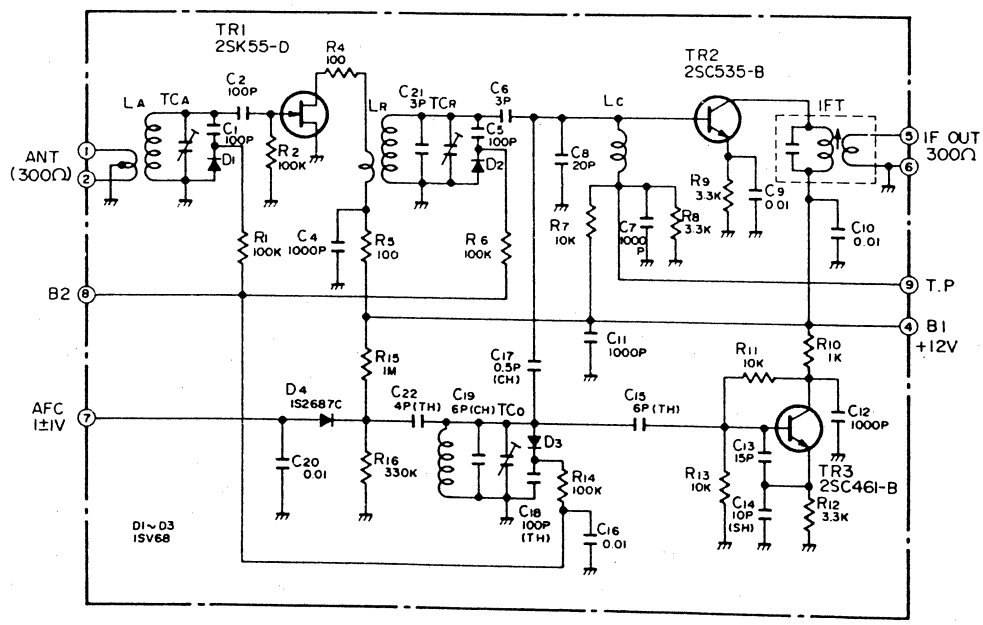


6-15 CASSETTE DECK P.C.B.

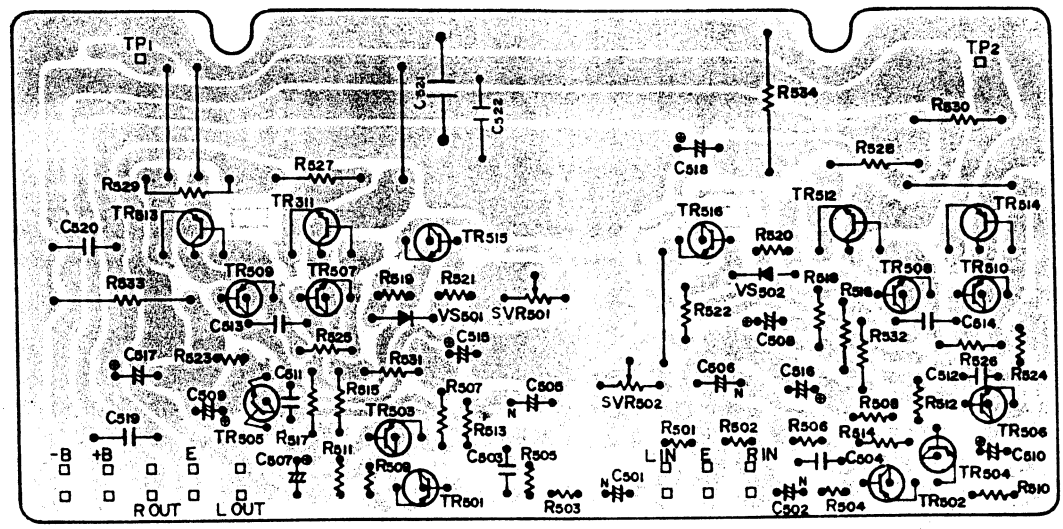


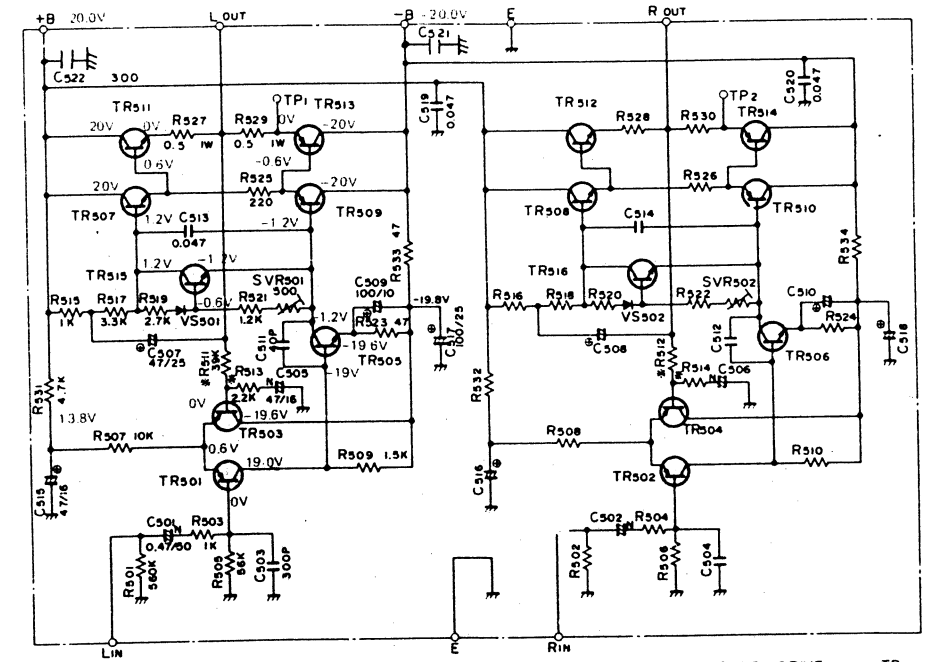
6-16 FM BLOCK P.C.B. AND DIAGRAM





6-17 AF P.C.B. AND DIAGRAM

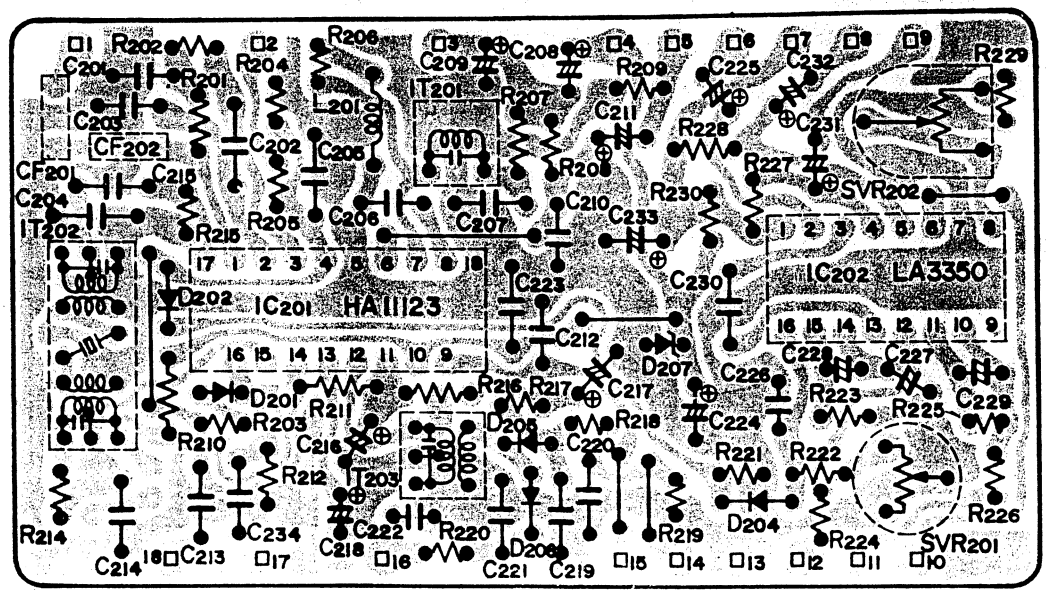


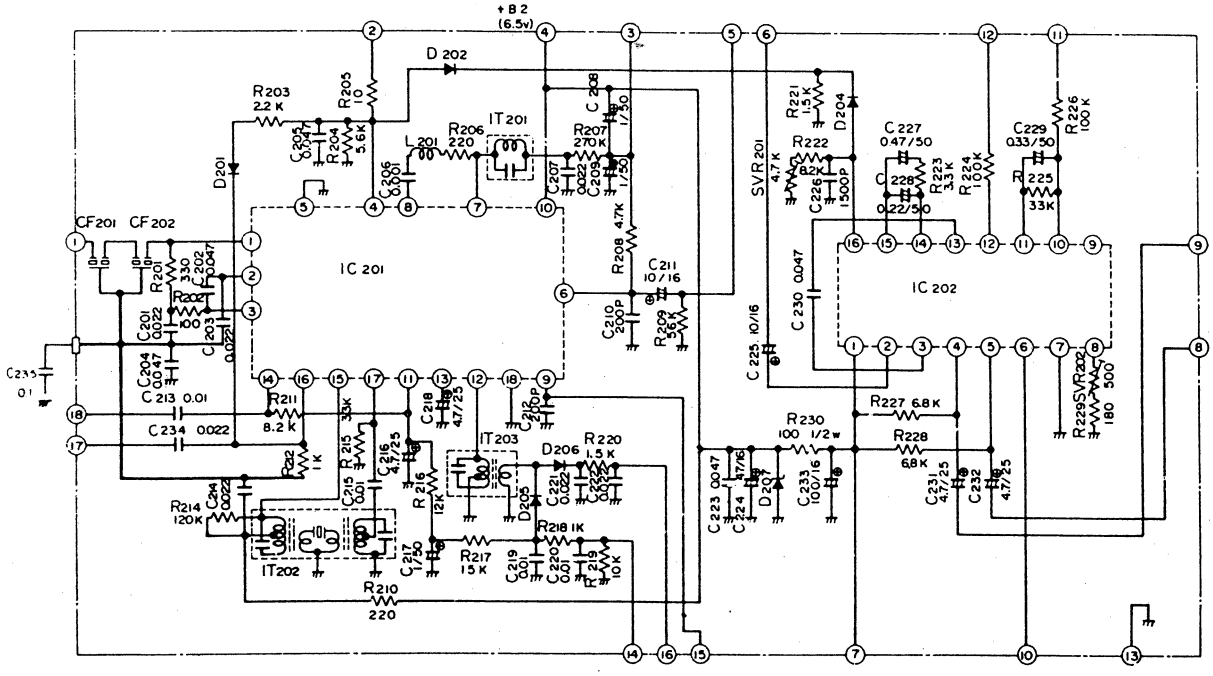


VS501 KB 162
VS502 KB 162

TR501	2SA872-D,E	PRE AMP	TR505	2SC1775-F,E	PRE DRIVE	TR509	2SB647-C,D	DRIVE	TR513	2SB566-C,D	BUFF AMP
TR502	2SA872-D,E	PRE AMP	TR506	2SC1775-F,E	PRE DRIVE	TR510	2SB647-C,D	DRIVE	TR514	2SB566-C,D	BUFF AMP
TR503	2SA872-D,E	PRE AMP	TR507	2SD667-C,D	DRIVE	TR511	2SD476-C,D	BUFF AMP	TR515	2SC1344-01	BIAS
TR504	2SA872-D,E	PRE AMP	TR508	2SD667-C,D	DRIVE	TR512	2SD476-C,D	BUFF AMP	TR516	2SC1344-01	BIAS

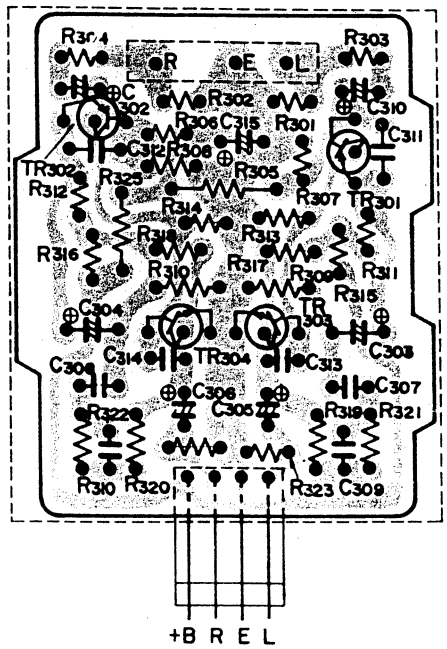
6-18 IF BLOCK P.C.B. AND DIAGRAM

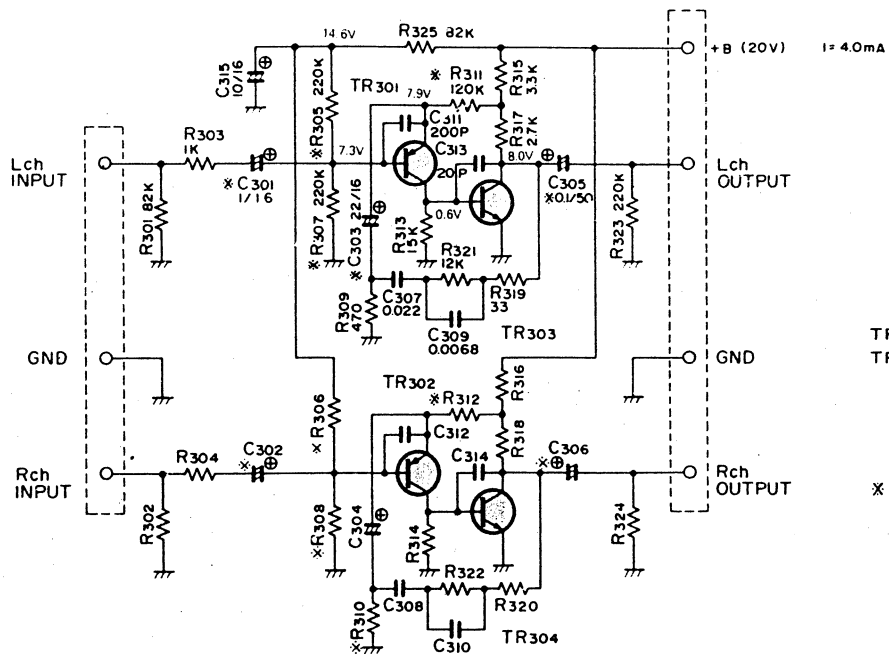




IC201	HA11123	D201	IS1555V	D205	20A90
IC202	LA3350	D202	IS1555V	D206	20A90
		D204	IS1555V	D207	RD6.2E-C

6-19 EQUALIZER BLOCK P.C.B. AND DIAGRAM

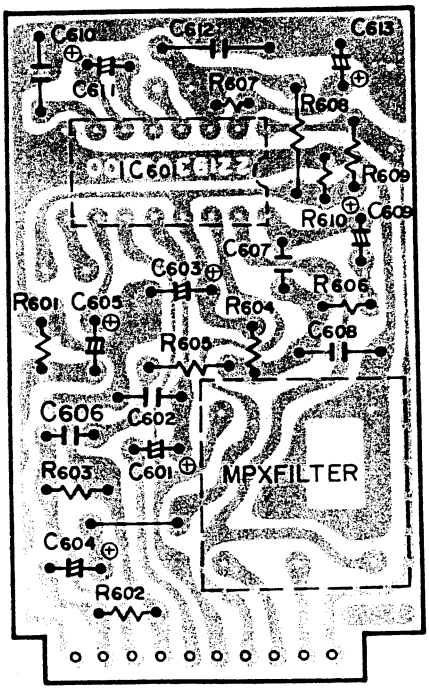


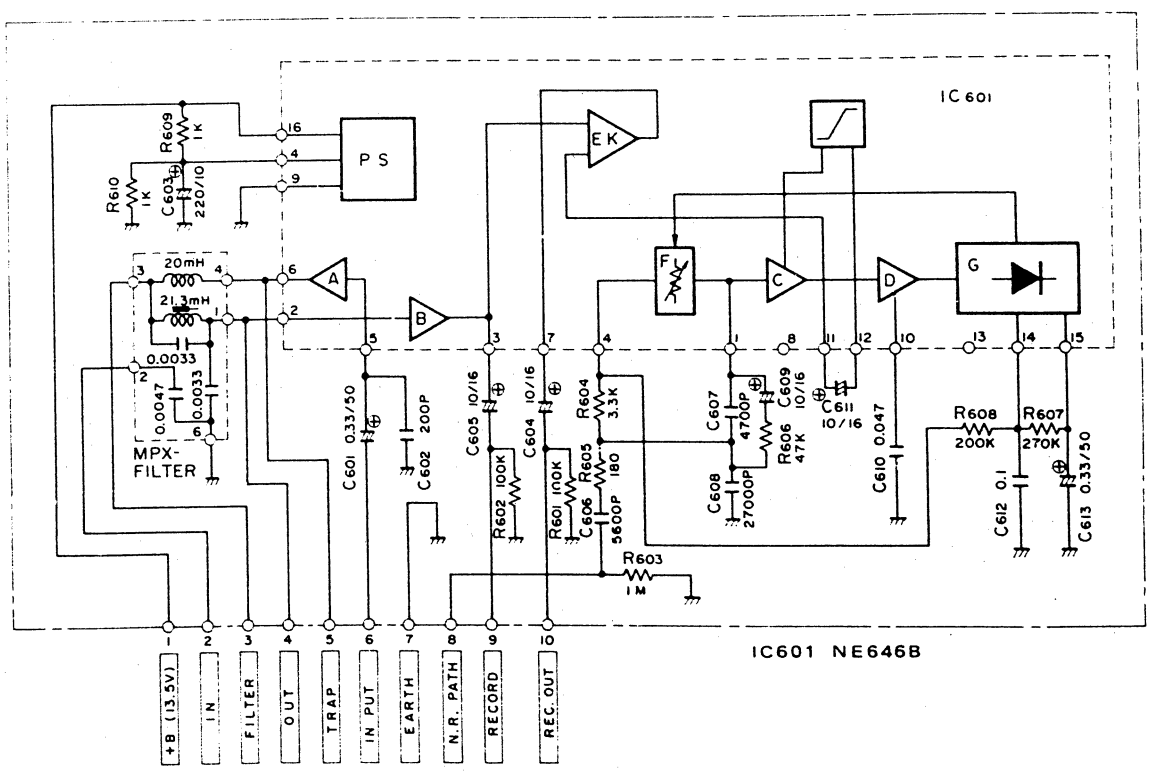


TR301, 302 2SA970-BL
TR303, 304 2SC732TM-BL

※ = LOW NOISE

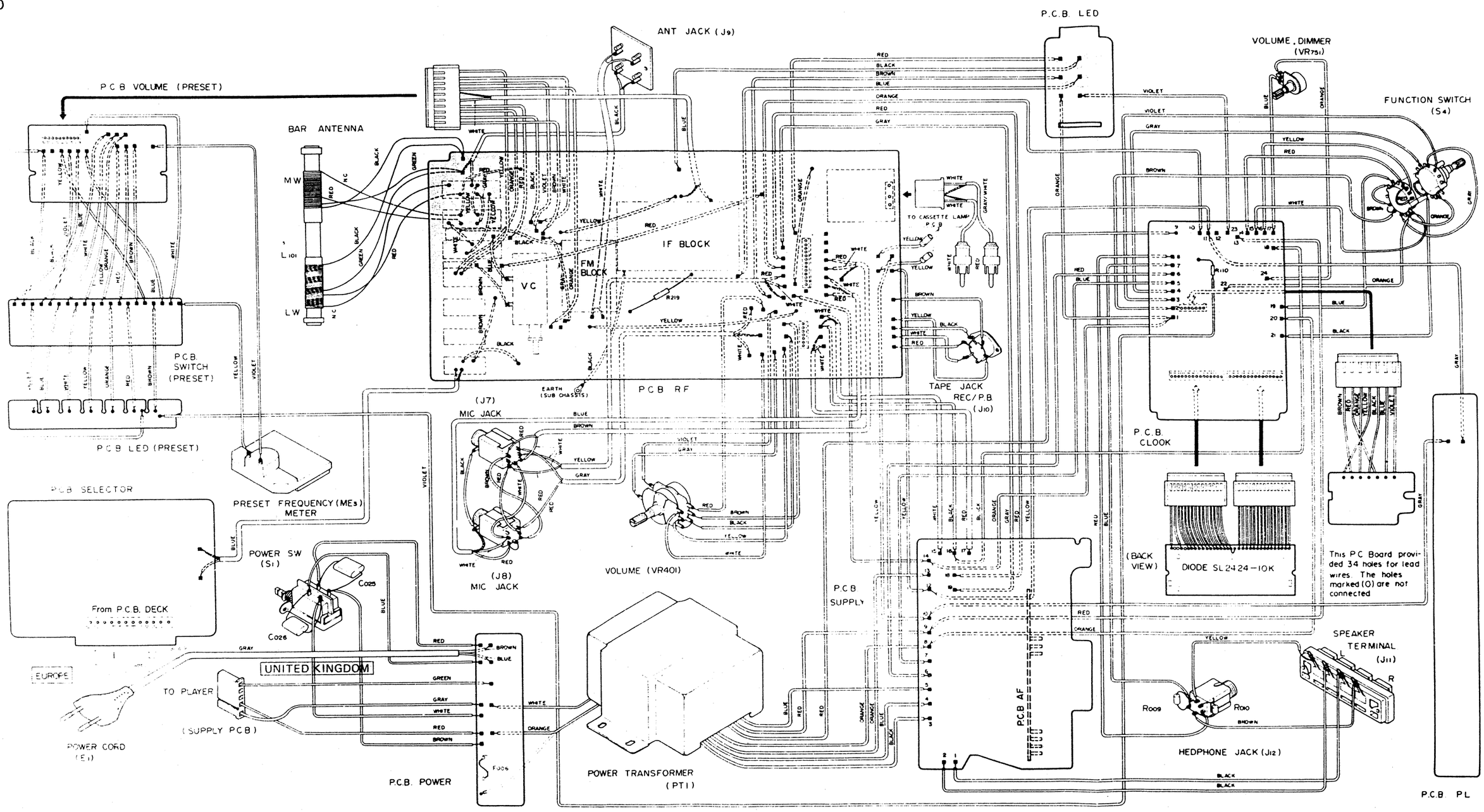
6-20 DOLBY BLOCK P.C.B. AND DIAGRAM



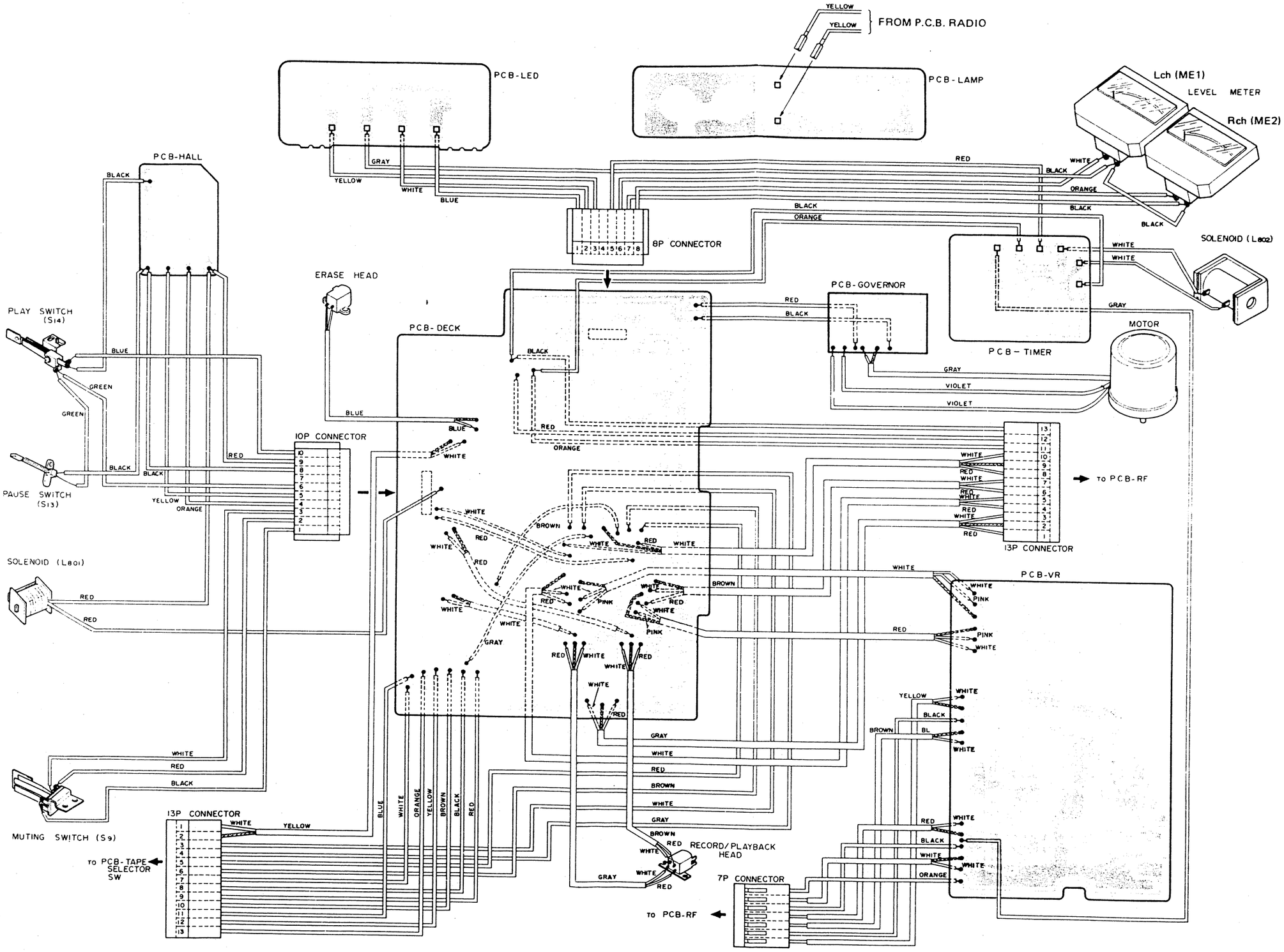


7. BOTTOM VIEW OF P.C.B. AND WIRING

7-1 RADIO

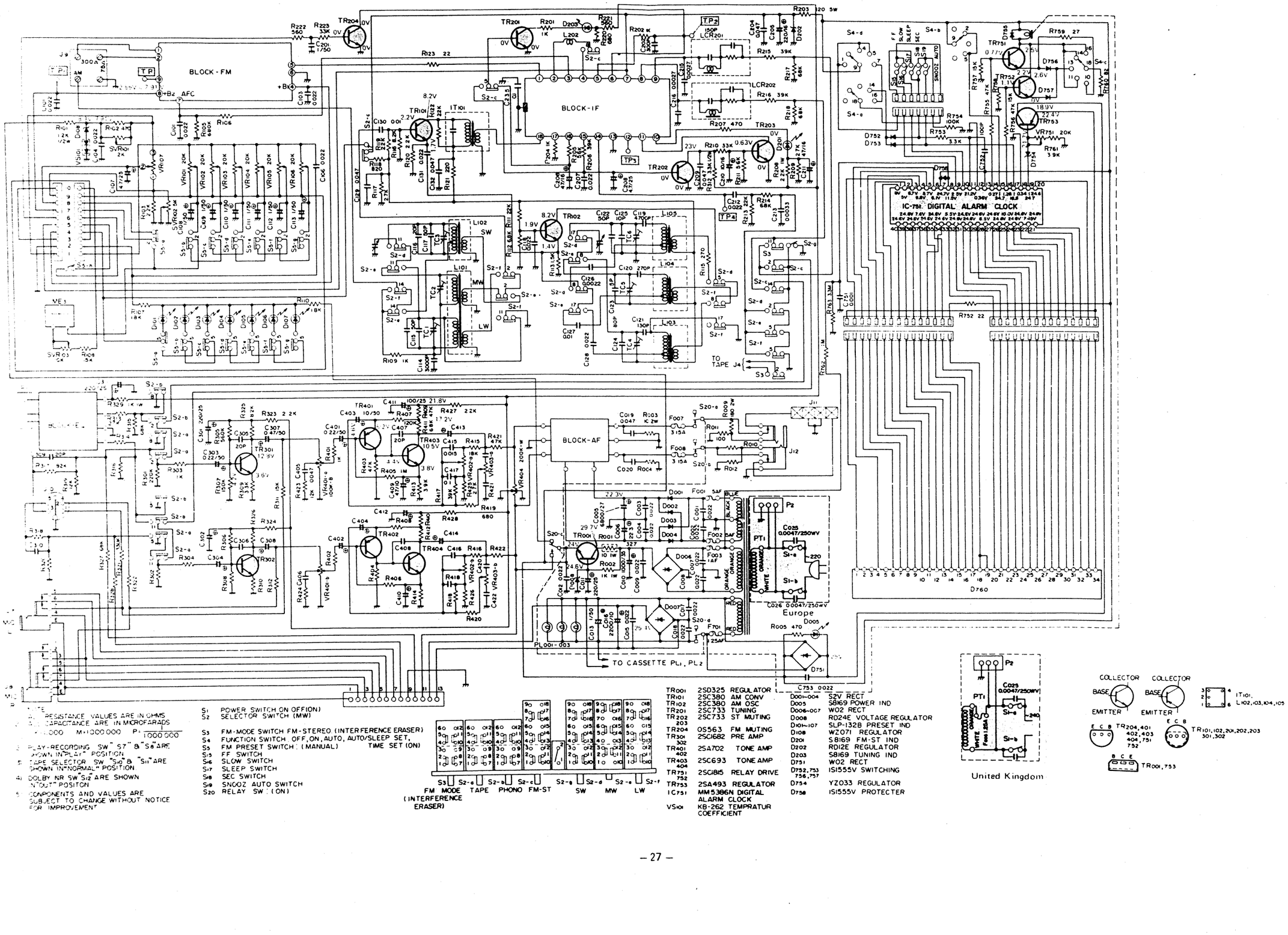


7-2 CASSETTE DECK



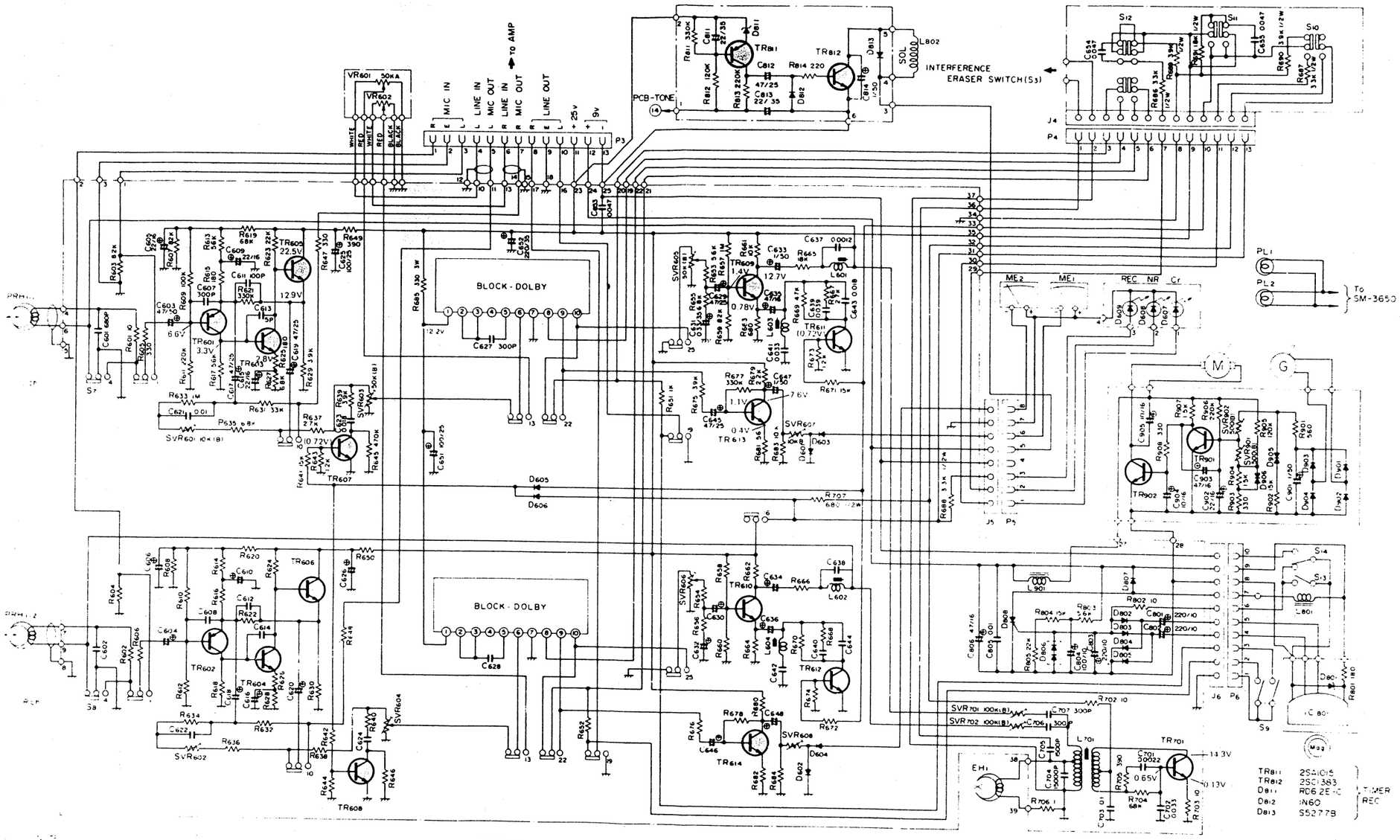
8. SCHEMATIC DIAGRAM

8-1 RADIO



NOTE
1) RESISTANCE VALUES ARE IN OHMS K=1000 M=1000 000 P=1000 000
CAPACITANCE ARE IN MICROFARADS
2) PLAY-RECORDING SW "S7" & "S8" ARE SHOWN IN "PLAY" POSITION
3) TAPE SELECTOR SW "S10" & "S11" ARE SHOWN IN "NORMAL" POSITION
4) DOLBY NR SW "S12" ARE SHOWN IN "OUT" POSITON
5) COMPONENTS AND VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT

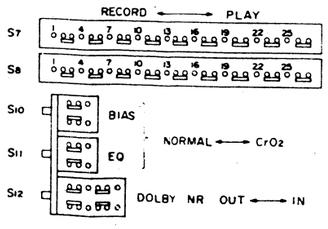
8-2 CASSETTE DECK



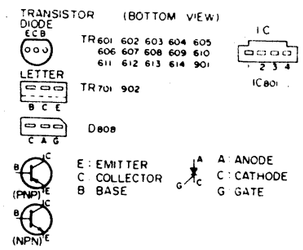
NOTES:

1. ALL RESISTANCE VALUES ARE IN OHMS
   ALL CAPACITANCE ARE IN MICROFARADS
   K=1000 M=1000000 P=1/1000000
2. PLAY-RECORDING SW S7 & S8 ARE SHOWN IN PLAY POSITION
3. TAPE SELECTOR SW S10 & S11 ARE SHOWN IN NORMAL POSITION
4. DOLBY NR SW S12 ARE SHOWN IN OUT POSITION
5. COMPONENTS AND VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT

		(POSITION)
S7 S8	REC / PLAY SW	PLAY
S9	MUTING SW	OFF
S10	TAPE SELECT (BIAS)	NORMAL
S11	TAPE SELECT (EQUALIZER)	NORMAL
S12	DOLBY NR SW	OUT
S13	PAUSE SW	OFF
S14	PLAY SW	OFF



TRANSISTOR (BOTTOM VIEW)



E : EMITTER
C : COLLECTOR
B : BASE
A : ANODE
C : CATHODE
G : GATE

TR601 602	2SA721	EQ AMP
603 604	2SC1327	EQ AMP
605 606	2SC1327	EQ AMP
607 608	2SC828	EQ SW
609 610	2SC828	REC AMP
611 612	2SC828	REC EQ SW
613 614	2SC828	METER AMP
701	2SC1173	BIAS OSC
901	2SC373	MOTOR GOVERNOR
902	2SC1173	MOTOR GOVERNOR
D601 602	20A90	METER RECT
603 604	20A90	METER RECT
605 606	1S1555	EQ SW
607 608 609	S8169	INDICAT
801		WZ050
802 803 804 805		1S1555
806		MV-11
807		1S1885
808		SFIR3841

AUTO STOP

D901 902	1S1555
903 904	1S1555
905 906	MV-11

MOTOR GOVERNOR

IC801 DN-835 AUTO STOP

FU-405 TYPE
R685 220 3W
C627 628 180P

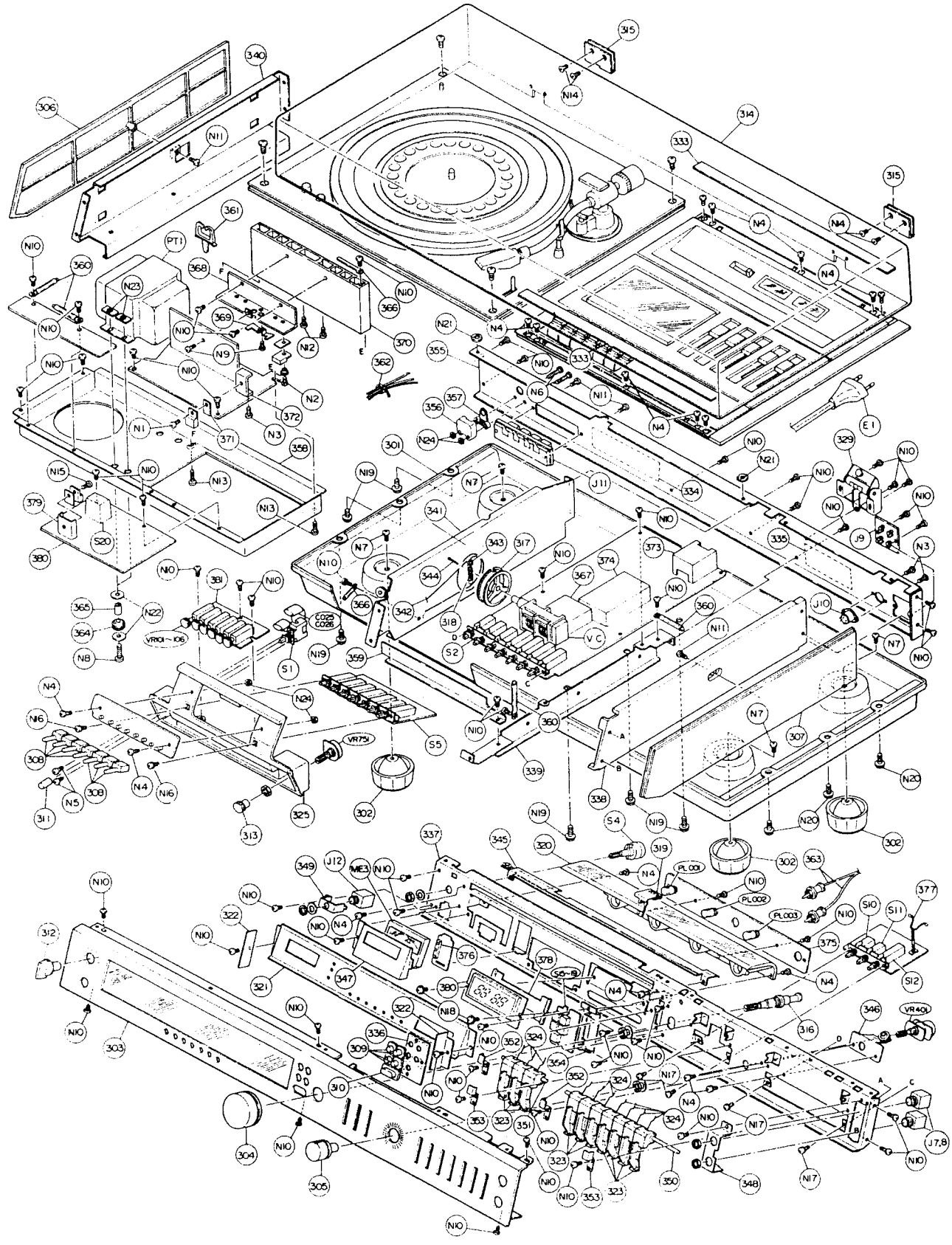
FU-407 TYPE
R685 330 3W
C627 628 300P

TR811	2SA1015
TR812	2SC1383
D811	RD6.2E-HC
D812	IN60
D813	S5277B

TIMER REC

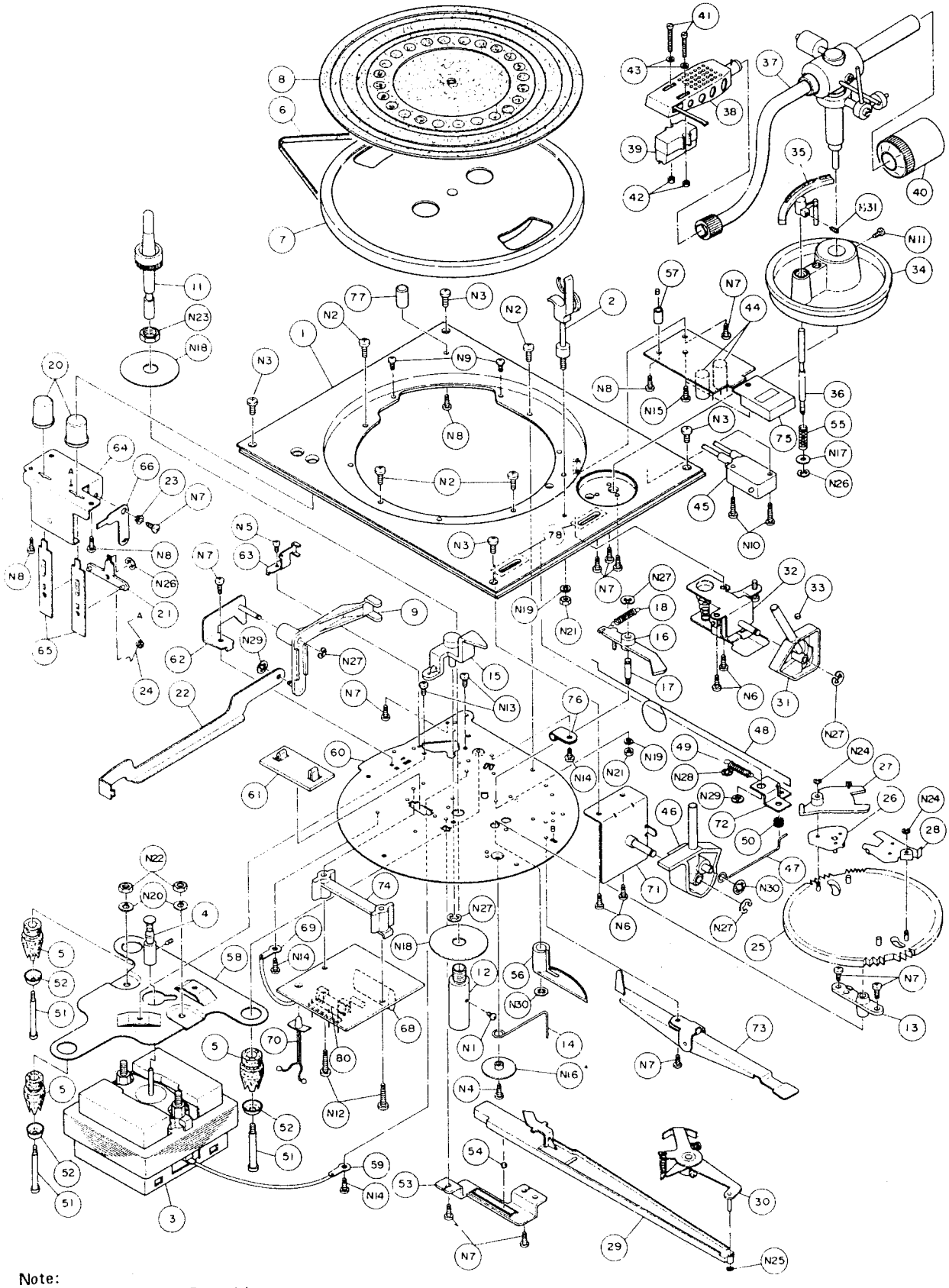
9. EXPLODED VIEW

9-1 CABINET



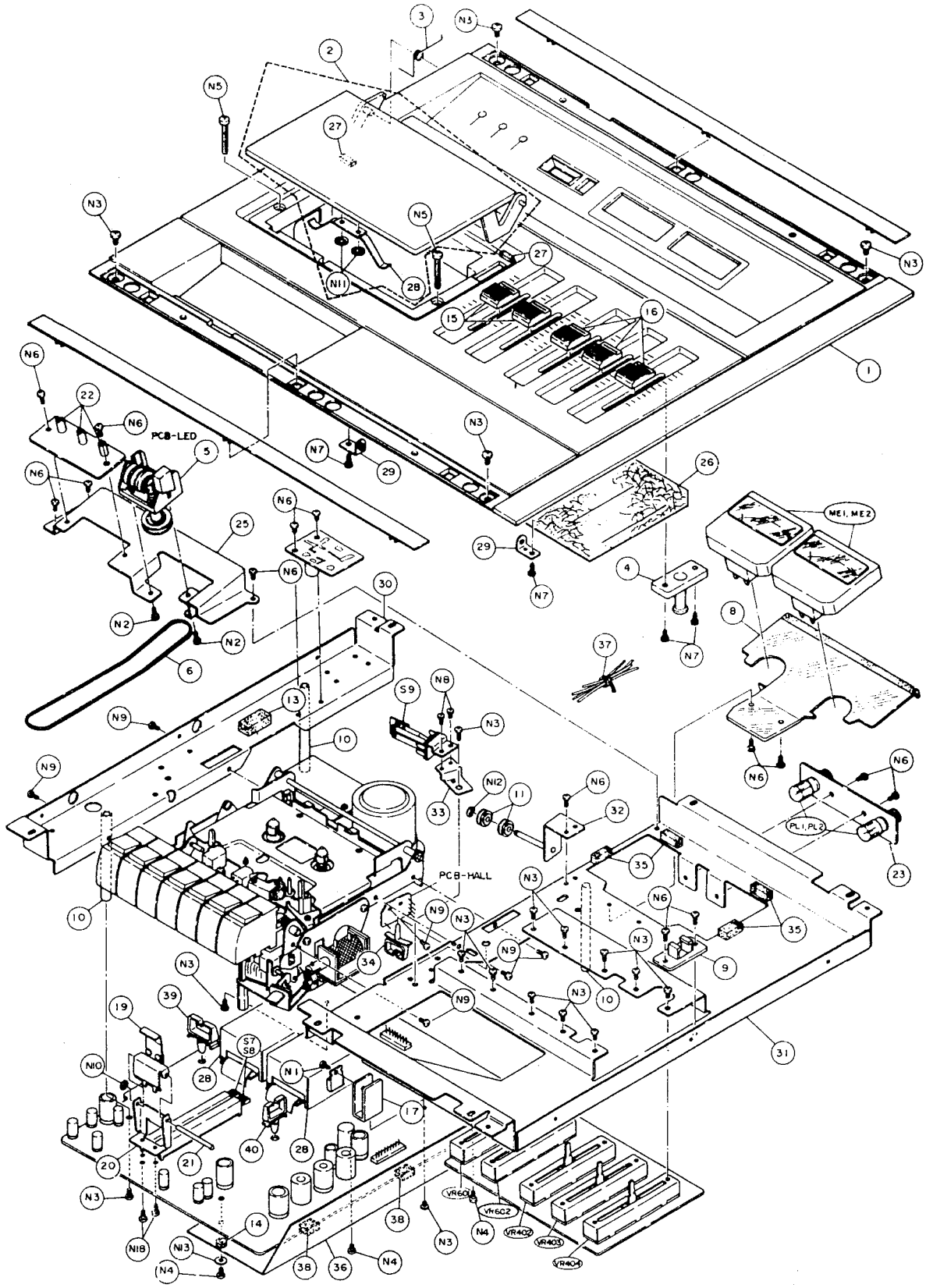
Note:
Parts excluded in the Parts List are not available as Replacement Parts.

9-2 PLAYER



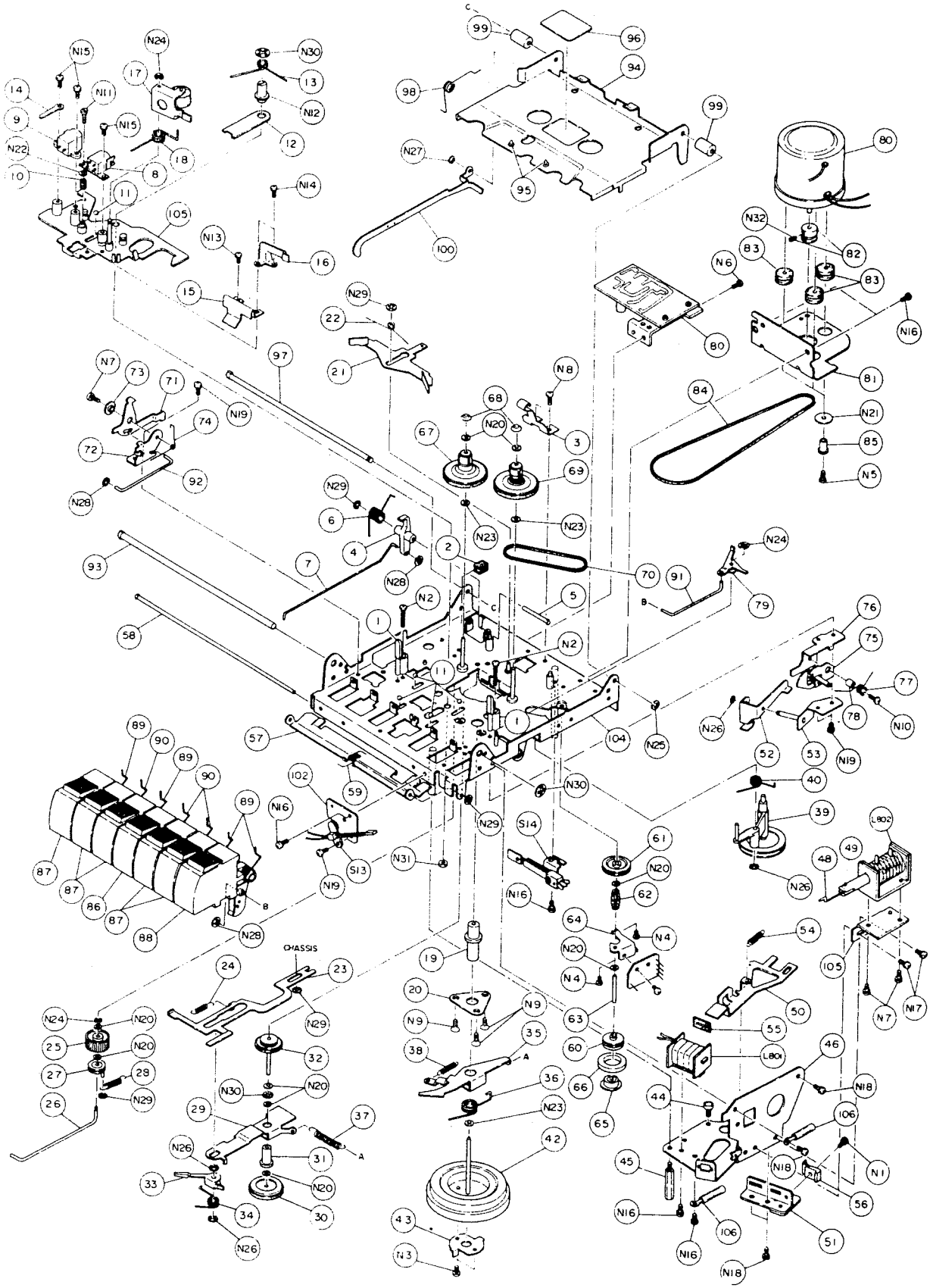
Note:
Parts excluded in the Parts List are not available as Replacement Parts.

9-3 CASSETTE PANEL



Note:
Parts excluded in the Parts List are not available as Replacement Parts.

9-4 MECHANISM



Note:
Parts excluded in the Parts List are not available as Replacement Parts.

10. EXPLODED VIEW PARTS LIST

10-1 MECHANISM AND CASSETTE PANEL PARTS

Symbol No.	Part No.	Description
1	25732606	Cassette Guide
2	22756795	Cushion
3	22772541	Plate Spring
4	25742604	REC Lever
5	25724622	Pin
6	20707685	Torsion Spring
7	25727603	Joint B
8	22217255	Record/Playback Head
9	22218166	Erase Head
10	20703650	Push Spring
11	25757602	Steel Ball (5/64)
12	22772579	Plate Spring
13	22775518	Torsion Spring
14	22184131	Lug Clamp
15	22772578	Plate Spring
16	25742608	Switch Lever
17	25742878	Pinch Arm Assembly
18	20707710	Torsion Spring
19	25725609	Flywheel Bearing
20	25734605	Bearing Holder
21	25731698	Brake Plate
22	22771816	Torsion Spring
23	25742666	Push Lever
24	20705684	Pull Spring
25	25752659	REW Idler
26	25727602	Joint D
27	25741602	REW Guide
28	20705683	Pull Spring
29	25742741	FF Arm
30	25752644	FR Idler
31	25725614	FF Bearing
32	25752645	FF Idler Assembly
33	25742739	REW Lever
34	22771713	Torsion Spring
35	25742740	FF Lever
36	22771712	Torsion Spring
37	22771726	Pull Spring
38	22771725	Pull Spring
39	25742663	Takeup Arm Assembly
40	20707652	Torsion Spring
42	25751667	Flywheel
43	25731660	Crow Plate
44	25764619	Flywheel Thrust
45	22752944	Stud
46	25846896	Flywheel Support
48	25727655	Joint
49	22746583	Strap Pin
50	25734647	Trigger Plate Assembly
51	25732663	Lever Guide
52	25742670	Rejecting Lever
53	25846803	Reject Holder
54	20705710	Pull Spring
55	22756735	Cushion
56	25846794	Lever Support
57	25742759	Lock Lever
58	25724623	Pin
59	20707643	Torsion Spring
60	25751701	Counter Pulley
61	25731607	Counter Pulley
62	25725604	Counter Bearing
63	25721652	Counter Shaft
64	25846811	PCB Stay
65	22756800	Magnet Bush
66	22754868	Magnet Ring

Symbol No.	Part No.	Description
67	25751692	Reel Assembly
68	25764602	Cap
69	25754604	Takeup Reel Assembly
70	25755607	Belt,Takeup Reel to Counter Pulley
71	25742758	Lock Lever
72	25846802	Lock Support
73	25721711	Lock Shaft
74	22771756	Torsion Spring
75	20754706	Pause Clutch
76	22754831	Pause Bracket
77	20707651	Torsion Spring
78	20773618	Spacer
79	25742638	Pause Lever
80	22125444	Motor
81	22754679	Motor Bracket
82	25751785	Motor Pulley
83	20881608	Cushion
84	25755621	Belt, Flywheel to Motor
85	75830508	Eyelet 3.0x8
86	25826691	Push Button, Play
87	25826692	Push Button, rew, ff, stop, rec
88	25826742	Push Button, Pause
89	22771703	Torsion Spring
90	22771704	Torsion Spring
91	25727606	Joint A
92	25727622	Joint C
93	25724629	Button Shaft
94	25731825	Cassette Plate
95	22743551	Cassette Guide
96	22866627	Label
97	25724612	Holder Shaft
98	22771916	Torsion Spring
99	22752988	Spacer
100	25742934	Protect Lever
102	25731830	Switch Plate
L801	22147151	Solenoid
L802	22147173	Solenoid
S13	22140333	Leaf Switch, Pause
S14	22140356	Leaf Switch, Motor

SCREWS & RINGS

N1	70402605	Pan Head Screw 2.6x5mm
N2	22701610	Pan Head Screw 2.6x12mm
N3	72602606	Pan Head Tapping Screw 2.6x6mm
N4	70432606	Bind Head Screw 2.6x6mm
N5	70432610	Bind Head Screw 2.6x10mm
N6	70433006	Bind Head Screw 3.0x6mm
N7	70433010	Bind Head Screw 3.0x10mm
N8	72632606	Bind Head Tapping Screw 2.6x6mm
N9	70442605	Flat Head Screw 2.6x5mm
N10	70463008	Truss Head Screw 3.0x8mm
N11	20795681	Cylinder Head Screw 2.0x8mm
N12	25724624	Special Screw
N13	20795929	Pan Head Screw 2.0x3mm (with Spring Washer)
N14	22701732	Pan Head Screw 2.0x4mm (with Spring Washer)
N15	20795948	Pan Head Screw 2.0x6mm (with Spring Washer)

Symbol No.	Part No.	Description
N16	20795704	Pan Head Screw 3.0x5mm (with Spring Washer)
N17	20795730	Pan Head Screw 3.0x6mm (with Spring Washer)
N18	20795942	Pan Head Screw 2.6x4mm (with Spring Washer)
N19	20795703	Pan Head Screw 2.6x5mm (with Spring Washer)
N20	22752852	Nylon Washer 2.1ϕ
N21	20791625	Washer 3.2ϕ
N22	74001020	Washer 2.0ϕ
N23	20791609	Washer 2.5x6.0x0.3
N24	74050015	Retaining Ring 1.5ϕ
N25	74050020	Retaining Ring 2.0ϕ
N26	22703589	Retaining Ring 2.4ϕ
N27	74050025	Retaining Ring 2.5ϕ
N28	74060015	Retaining Ring 1.5ϕ
N29	74060020	Retaining Ring 2.0ϕ
N30	74060050	Retaining Ring 5.0ϕ
N31	73653000	Nut 3.0ϕ
N32	74752304	Set Screw 2.3x4mm
		CASSETTE PANEL
1	25829642	Cassette Panel
2	22822660	Cassette Cover Assembly
3	22771755	Torsion Spring
4	22870505	Hook
5	25873629	Counter
6	25755692	Belt, Counter to Counter Pulley
8	25846868	Meter Holder
9	22870506	Hook
10	22752937	Stud
11	20042601	Pulley
13	22756822	Cushion
14	20042601	Pulley
15	22835713	Volume Knob, rec
16	22835714	Volume Knob, bass, treble, balance
19	25742855	REC Lever Assembly
20	22754919	REC Holder
21	25721773	Roller Shaft
22	22754940	LED Holder
23	22130305	P.C.B. Lamp Assembly
26	22854716	Screen
27	22756741	Cushion
28	22130348	Dolby Block Assembly
		SCREWS & RINGS
N1	70432605	Bind Head Screw 2.6x5mm
N2	70433005	Bind Head Screw 3.0x5mm
N3	70433006	Bind Head Screw 3.0x6mm
N4	70433010	Bind Head Screw 3.0x10mm
N5	22701640	Bind Head Screw 3.0x25mm
N6	72633006	Bind Head Tapping Screw 3.0x6mm
N7	72633008	Bind Head Tapping Screw 3.0x8mm
N8	20795942	Pan Head Screw 2.6x4mm (with Spring Washer)
N9	20795704	Pan Head Screw 3.0x5mm (with Spring Washer)
N10	74060020	Retaining Ring 2.0ϕ
N11	74060030	Retaining Ring 3.0ϕ
N12	74050025	Retaining Ring 2.5ϕ
N13	74001030	Washer 3.0ϕ

10-2 CABINET PARTS

Symbol No.	Part No.	Description
301	20847869	Cabinet
302	20842645	Foot
303	20836669	Front Panel Assembly
304	20871920	Tunning Knob
305	20871919	Volume Knob
306	20836643	Side Panel, Left (For Europe)
	20836645	Side Panel, Left (For United Kingdom)
307	20836642	Side Panel, Right (For Europe)
	20836644	Side Panel, Right (For United Kingdom)
308	20874650	Push Button
309	20874647	Push Button
310	20874648	Push Button
311	20874651	Push Button
312	20871959	Selector Knob
313	20871961	Volume Knob
314	20847870	Dust Cover
315	20753788	Hinge (Dust Cover)
316	20042713	Tuning Shaft
317	20042712	Drum
318	22776608	Pull Spring
319	20042703	Pointer
320	20857603	Pilot Lamp Lens
321	22847866	Dial Plate
322	22844563	Dial Decoration
323	20874637	Push Button
324	20707749	Torsion Spring
325	20735662	Bracket
329	20861701	Hinge
333	25822741	Screw Cover
334	22867613	Main Label (For Europe)
	22867629	Main Label (For United Kingdom)
335	22866913	Terminal Label
336	22854732	Screen
363	22170368	Cord Assembly
365	22753625	Spacer
367	22131215	FM Block
373	22136443	Equalizer Block
374	22133307	IF Block
375	22130374	PCB Pilot Lamp Assembly
380	22130349	PCB Clock Assembly
381	22130370	PCB Preset Volume Assembly
		SCREWS & RINGS
N1	20795946	Pan Head Screw 3.0x6mm
N2	22701583	Pan Head Screw 3.0x8mm
N3	70432606	Bind Head Screw 2.6x6mm
N4	70433008	Bind Head Screw 3.0x8mm
N5	22701710	Bind Head Screw 3.0x20mm (blk)
N6	22701582	Bind Head Screw 3.0x20mm
N7	70434010	Bind Head Screw 4.0x10mm
N8	70434016	Bind Head Screw 4.0x16mm
N9	72633006	Bind Head Tapping Screw 3.0x6mm
N10	72633008	Bind Head Tapping Screw 3.0x8mm
N11	72633010	Bind Head Tapping Screw 3.0x10mm
N12	72633012	Bind Head Tapping Screw 3.0x12mm
N13	72633014	Bind Head Tapping Screw 3.0x14mm

Symbol No.	Part No.	Description
N14	70454010	Oval Head Screw 4.0x10mm
N15	20795924	Pan Head Tap Tight Screw 3.0x5mm
N16	22701557	Pan Head Screw 3.0x14mm (with Spring Washer)
N17	20795744	Pan Head Screw 3.0x8mm (with Spring Washer)
N18	20795908	Pan Head Tapping Screw 3.0x8mm (with Washer)
N19	20795962	Pan Head Screw 4.0x8mm (with Washer)
N20	22701553	Pan Head Tapping Screw 4.0x15mm (with Washer)
N21	20791676	Washer, 5.5x18x1.5
N22	20791656	Washer, 4.2x15x0.8
N23	20021748	Special Nut
N24	73653000	Nut 3.0ϕ

10-3 PLAYER PARTS

Symbol No.	Part No.	Description
1	20713822	Panel
2	20738655	Arm Clamp Assembly
3	22125484	Motor
4	20716753	Motor Pulley,50 Hz
	20716754	Motor Pulley,60 Hz(Service only)
5	22756828	Rubber Cushion
6	20728611	Belt
7	20723683	Turntable
8	20723675	Table Sheet
9	22743554	Belt Guide
11	20725689	Table Shaft Assembly
12	20725660	Table Bearing
13	20773767	Gear Bearing
14	20764682	Return Rod
15	20751753	Rejecting Lever Assembly
16	20746737	Gear Stopper
17	20763824	Stopper Shaft
18	20705601	Pull Spring
20	20874636	Push Button
21	20754637	Seesaw Lever
22	20754638	Connect Plate
23	20773867	Spacer
24	22775521	Torsion Spring
25	20727638	Main Gear
26	20751704	Auto Trip
27	20751729	Auto Clutch Assembly
28	20753782	Hand Clutch
29	20753931	Auto Lever
30	20751772	Pickup Plate Assembly
31	20757730	Lift Cam Assembly
32	20754644	Lift Lever Assembly
33	74090318	Steel Ball (1/8)
34	20735651	Pickup Arm Stand
35	20761658	Lifter Bar Assembly
36	20764669	Lifting Shaft
37	20731848	Pickup Arm (without Head Shell)
38	20736025	Head Shell
39	22155317	Cartridge (without Stylus)

Symbol No.	Part No.	Description
40	20731771	Main Weight
41	20795969	Mounting Screw
42	20796027	Mounting Nut
43	20791077	Mounting Washer
44	22163593	US Pin Jack
45	22140351	Micro Switch
46	20757731	Rejecting Cam
47	20764701	Connect Pole
48	20764732	Reject Pole
49	20705692	Pull Spring
50	20881666	Joint Bushing
51	20764686	Shaft
52	20746631	Cushion Holder
53	22754857	Ball Holder
54	74090397	Steel Ball (5/32)
55	22771961	Push Spring
56	20757742	Return Cam
57	22752815	Specer
68	22370139	Metalized Mylar Capacitor 0.047mfd/1000WV
80	22144207	Fuse 0.25A
	SCREWS & RINGS	
N1	70433004	Bind Head Screw 3.0x4mm
N2	70434008	Bind Head Screw 4.0x8mm
N3	22701651	Bind Head Screw 4.0x10mm
N4	72632610	Bind Head Tapping Screw 2.6x10 mm
N5	72633005	Bind Head Tapping Screw 3.0x 5mm
N6	72633006	Bind Head Tapping Screw 3.0x6 mm
N7	72633008	Bind Head Tapping Screw 3.0x 8 mm
N8	72633010	Bind Head Tapping Screw 3.0x10 mm
N9	72633012	Bind Head Tapping Screw 3.0x12 mm
N10	72633020	Bind Head Tapping Screw 3.0x20 mm
N11	20795919	Special Screw
N12	20795917	Brazier Head Tapping Screw 3.0x20mm
N13	20795977	Pan Head Screw 4.0x8mm (with Washer)
N14	20795916	Brazier Head Screw 3.0x8mm (with Washer)
N15	20794779	Pan Head Tapping Screw 3.0x10mm (with Washer)
N16	22752858	Special Washer
N17	22752838	Fiber Washer 4.1ϕ
N18	20791937	Washer 9.1x34x0.8
N19	74010030	Spring Washer 3.0ϕ
N20	74010040	Spring Washer 4.0ϕ
N21	73653000	Nut 3.0ϕ
N22	73654000	Nut 4.0ϕ
N23	20796631	Nut 9ϕ
N24	74050015	Retaining Ring 1.5ϕ
N25	74050020	Retaining Ring 2.0ϕ
N26	74050030	Retaining Ring 3.0ϕ
N27	22703575	Retaining Ring 3.1ϕ
N28	74060020	Retaining Ring 2.0ϕ
N29	74060030	Retaining Ring 3.0ϕ
N30	74060040	Retaining Ring 4.0ϕ
N31	74742604	Set Screw 2.6x4mm

11. ELECTRICAL PARTS LIST

Symbol No.	Part No.	Description
	"RADIO BLOCK"	
	TRANSISTORS & DIODES	
TR101		Transistor, 2SC380-0
TR102		Transistor, 2SC380-0
TR201		Transistor, 2SC733-BL
TR202		Transistor, 2SC733-BL
TR203		Transistor, 2SC733-BL
TR204	22114270	Transistor, OS536-F
TR301		Transistor, 2SC1682GR
TR302		Transistor, 2SC1682GR
D108	22115225	Diode, WZ071
VS101	22115199	Diode, KB262
D202	22115367	Diode, RD12E-K
	COILS & TRANSFORMERS	
L101	22242718	Antenna Coil Assembly
L102	22282181	Antenna Coil, SW
L103	22205045	OSC Coil, LW
L104	22245312	OSC Coil, MW
L105	22285270	OSC Coil, SW
L202	22211229	Choke Coil, AF
IT101	22264580	IF Transformer, AM
	VARIABLE CAPACITORS	
VC	22307204	Variable Capacitor
TC1	22309104	Trimmer Capacitor
TC2	22309104	Trimmer Capacitor
TC3	22309104	Trimmer Capacitor
TC4	22309104	Trimmer Capacitor
TC5	22309104	Trimmer Capacitor
TC6	22309104	Trimmer Capacitor
	VARIABLE RESISTORS	
SVR101	22658466	Semi-Fixed Resistor 2k ohms
SVR102	22658467	Semi-Fixed Resistor 5k ohms
	MISCELLANEOUS	
LCR201	22134109	LCR Combination
LCR202	22134109	LCR Combination
S2	22140477	Push Switch, band select
	"AF BLOCK"	
	TRANSISTORS & DIODES	
TR501	22114606 22114607	Transistor, 2SA872-D or 2SA872-E
TR502	22114606 22114607	Transistor, 2SA872-D or 2SA872-E
TR503	22114606 22114607	Transistor, 2SA872-D or 2SA872-E
TR504	22114606 22114607	Transistor, 2SA872-D or 2SA872-E
TR505	22114604 22114605	Transistor, 2SC1775-F or 2SC1775-E
TR506	22114604 22114605	Transistor, 2SC1775-F or 2SC1775-E
TR507	22114601 22114602	Transistor, 2SD667-C or 2SD667-D
TR508	22114601 22114602	Transistor, 2SD667-C or 2SD667-D
TR509	22114599 22114600	Transistor, 2SB647-C or 2SB647-D
TR510	22114599 22114600	Transistor, 2SB647-C or 2SB647-D
TR511	22114597 22114598	Transistor, 2SD476-D or 2SD476-C
TR512	22114597 22114598	Transistor, 2SD476-D or 2SD476-C
TR513	22114595 22114596	Transistor, 2SB566-D or 2SB566-C
TR514	22114595 22114596	Transistor, 2SB566-D or 2SB566-C
TR515	22114603	Transistor, 2SC1344-01
TR516	22114603	Transistor, 2SC1344-01
	VARIABLE RESISTORS	
SVR501	22658300	Semi-Fixed Resistor 500 ohms
SVR502	22658300	Semi-Fixed Resistor 500 ohms
VS501	22692020	Varistor, KB 162
VS502	22692020	Varistor, KB 162
	"SUPPLY BLOCK"	
	TRANSISTORS & DIODES	
TR001	22114022 22114478	Transistor, 2SD325-D or 2SD325-E
D001	22115416 22115414	Diode, S2V10 or GP20B
D002	22115416 22115414	Diode, S2V10 or GP20B
D003	22115416 22115414	Diode, S2V10 or GP20B
D004	22115416 22115414	Diode, S2V10 or GP20B
D006	22115251	Diode, W02
D007	22115251	Diode, W02
D008	22115280	Diode, RD24E-K
	MISCELLANEOUS	
	22165047	Fuse Holder
F001	22144264	Fuse 5A
F002	22144264	Fuse 5A
F003	22144170	Fuse 1A
F006	22144213	Fuse 1.25A (For U.K. only)
F007	22144263	Fuse 3.15A
F008	22144263	Fuse 3.15A
	"CONPONENTS NOT MOUNTED ON P.C. BOARD"	
PT1	22223476	Power Transformer (For Europe)
	22223483	Power Transformer (For United Kingdom)
S1	22140518	Push Switch, power
E1	22176550	Power Cord (For Europe)
	22177081	Power Cord (For United Kingdom)
J7, 8	22163601	Jack 6.5ϕ, mic
J9	22162051	S4P Terminal, AM/FM antenna
J10	22167485	DIN Socket
J11	22161517	4P Terminal, Speaker
J12	22163276	Jack 6.5ϕ, Headphone
ME3	22104447	Tuning Meter
VR401	22651213	Volume 100k ohms

Symbol No.	Part No.	Description
		"EQUALIZER BLOCK"
	22136443	Equalizer Block Assembly
TR301		Transistor, 2SA970-BL
TR302		Transistor, 2SA970-BL
TR303		Transistor, 2SC732TM-BL
TR304		Transistor, 2SC732TM-BL
		"IF BLOCK"
	22133307	IF Block Assembly
IC201	22114608	IC, HA11123
IC202	22114416	IC, LA3350-MPX
D201		Diode, 1S1555V
D202		Diode, 1S1555V
D204		Diode, 1S1555V
D205	22115201	Diode, 20A90
D206	22115201	Diode, 20A90
D207	22115417	Diode, RD6.2E-C
L201	22241041	Choke Coil, FM
IT201	22267284	IF Transformer, FM
IT202	22264770	IF Transformer, AM
IT203	22266340	IF Transformer, AM
CF201	22153020	Ceramic Filter
CF202	22153020	Ceramic Filter
SVR201	22658444	Semi-Fixed Resistor 4.7k ohms
SVR202	22658443	Semi-Fixed Resistor 500 ohms
		"PILOT LAMP BLOCK"
D005		Diode, S8169
D201		Diode, S8169
D203		Diode, S8169
PL001	22113129	Pilot Lamp 0.1A, 9V
PL002	22113129	Pilot Lamp 0.1A, 9V
PL003	22113129	Pilot Lamp 0.1A, 9V
		"SWITCH BLOCK" (TAPE SELECTOR SWITCH)
S10,S11,S12	22140473	Push Switch, Bias, Equalizer, Dolby NR
		"CLOCK BLOCK"
		IC , TRANSISTORS & DIODES
IC751	22114495	IC, MM5386N
TR751		Transistor, 2SC1815-GR
TR752		Transistor, 2SC1815-GR
TR753		Transistor, 2SA473-Y
D751	22115251	Diode, W02
D752		Diode, 1S1555V
D753		Diode, 1S1555V
D754	22115322	Diode, YZ033
D755		Diode, S5277B
D756		Diode, 1S1555V
D757		Diode, 1S1555V
D758		Diode, 1S1555V
D760	22115478	Diode, SL2424-10K
		MISCELLANEOUS
S4	22140534	Rotary Switch, Function
S20	22148410	Relay
VR751	22625206	Volume 20k ohms, Dimmer
F701	22144183	Fuse, 1.25A
	22165047	Fuse Holder

Symbol No.	Part No.	Description
		"SWITCH BLOCK" (TIME SET)
S15	22140532	Push Switch
S16	22140532	Push Switch
S17	22140532	Push Switch
S18	22140532	Push Switch
S19	22140532	Push Switch
		"VOLUME BLOCK" (PRESET)
VR101	22650208	Volume 20k ohms
VR102	22650208	Volume 20k ohms
VR103	22650208	Volume 20k ohms
VR104	22650208	Volume 20k ohms
VR105	22650208	Volume 20k ohms
VR106	22650208	Volume 20k ohms
SVR103	22658454	Semi-Fixed Resistor 10k ohms
		"SWITCH & LED BLOCK" (PRESET)
D101	22115479	Diode, SLP132B
D102	22115479	Diode, SLP132B
D103	22115479	Diode, SLP132B
D104	22115479	Diode, SLP132B
D105	22115479	Diode, SLP132B
D106	22115479	Diode, SLP132B
D107	22115479	Diode, SLP132B
S5	22140531	Push Switch

Symbol No.	Part No.	Description
	"CASSETTE BLOCK"	
	TRANSISTORS & DIODES	
TR601	22114456	Transistor, 2SA721-T
TR602	22114456	Transistor, 2SA721-T
TR603	22114327	Transistor, 2SC1327-T
TR604	22114327	Transistor, 2SC1327-T
TR605	22114327	Transistor, 2SC1327-T
TR606	22114327	Transistor, 2SC1327-T
TR607	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR608	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR609	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR610	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR611	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR612	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR613	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR614	22114267 22114330	Transistor, 2SC828A-R or 2SC828-R or 2SC733-GR or 2SC1815-GR
TR701		Transistor, 2SC1173-0
D601	22115201	Diode, 20A90
D602	22115201	Diode, 20A90
D603	22115201	Diode, 20A90
D604	22115201	Diode, 20A90
D605		Diode, 1S1555V
D606		Diode, 1S1555V
D607		Diode, TLR-102
D608		Diode, TLR-102
D609		Diode, TLR-102
D802		Diode, 1S1555V
D803		Diode, 1S1555V
D804		Diode, 1S1555V
D805		Diode, 1S1555V
D806	22692015	Varistor, MV-11
D807		Diode, 1S1885
D808	22115223	Diode, SFIR3B41
	COILS	
L601	22211192	Choke Coil, AF
L602	22211192	Choke Coil, AF
L603	22211165	Choke Coil, AF
L604	22211165	Choke Coil, AF

Symbol No.	Part No.	Description
L701	22215083	OSC Coil, AF
L901	22211153	Choke Coil
	VARIABLE RESISTORS	
SVR601	22658212	Semi-Fixed Resistor, 10k ohms
SVR602	22658212	Semi-Fixed Resistor, 10k ohms
SVR603	22658214	Semi-Fixed Resistor, 50k ohms
SVR604	22658214	Semi-Fixed Resistor, 50k ohms
SVR605	22658214	Semi-Fixed Resistor, 50k ohms
SVR606	22658214	Semi-Fixed Resistor, 50k ohms
SVR607	22658212	Semi-Fixed Resistor, 10k ohms
SVR608	22658212	Semi-Fixed Resistor, 10k ohms
SVR701	22658215	Semi-Fixed Resistor, 100k ohms
SVR702	22658215	Semi-Fixed Resistor, 100k ohms
	"TONE BLOCK"	
	TRANSISTORS	
TR401	22114618	Transistor, 2SA702-E
TR402	22114618	Transistor, 2SA702-E
TR403	22114619	Transistor, 2SC693NP-H
TR404	22114619	Transistor, 2SC693NP-H
	VARIABLE RESISTORS	
VR402	22657198	Slide Volume, 100k ohms, bass
VR403	22657198	Slide Volume, 100k ohms, treble
VR404	22657195	Slide Volume, 200k ohms, balance
VR601	22657193	Slide Volume, 50k ohms, rec
VR602	22657193	Slide Volume, 50k ohms, rec
	" LAMP BLOCK "	
PL1, 2	22113129	Pilot Lamp 0.1A/9 V
	"TIMER BLOCK"	
	TRANSISTORS & DIODES	
TR811		Transistor, 2SA1015-Y
TR812	22114238	Transistor, 2SC1383-R
D811	22115417	Diode, RD6. 2E-C
D812		Diode, 1N60
D813		Diode, S5277B
	"DOLBY BLOCK"	
IC601	22130348 22114681 22137200	Dolby Block Assembly IC, NE646B MPX Filter
	"SENSER BLOCK"	
IC801	22114457	IC, DN835
D801	22115319	Diode, WZ-050
	"MISCELLANIOUS"	
ME1, 2	22104429	Level Meter
S9	22145902	Leaf Switch, Muting
S7, 8	22146496	Slide Switch, Record/Playback

CAPACITORS

Abbreviation Symbols....CD:Ceramic Disk, EL:Electrolytic
PF:Plastic Film
Tolerance....D: ±0.5PF J: ±5% K: ±10% M: ±20% Z: +80% −20%

Symbol No.	Part No.	Description
C001	22342223	CD, 0.022mfd, Z
C002	22342223	CD, 0.022mfd, Z
C003	22342223	CD, 0.022mfd, Z
C004	22342223	CD, 0.022mfd, Z
C005	22440194	EL, 6800mfd/27WV
C006	22440194	EL, 6800mfd/27WV
C007	22342223	CD, 0.022mfd, Z
C008	22342223	CD, 0.022mfd, Z
C009	22342223	CD, 0.022mfd, Z
C010	22447102	EL, 1000mfd/35WV
C011	22447221	EL, 220mfd/35WV
C012	22342223	CD, 0.022mfd, Z
C013	22440133	EL, 1mfd/50WV,
C015	22342223	CD, 0.022mfd, Z
C016	22440238	EL, 2200mfd/10WV
C017	22342223	CD, 0.022mfd, Z
C018	22342223	CD, 0.022mfd, Z
C019	22342473	CD, 0.047mfd, Z
C020	22342473	CD, 0.047mfd, Z
C025	22330119	Metallized Paper 0.0047 mfd, 250WV
C026	22330119	Metallized Paper 0.0047 mfd, 250WV
C101	22342223	CD, 0.022mfd, Z
C102	22342223	CD, 0.022mfd, Z
C103	22342223	CD, 0.022mfd, Z
C104	22342223	CD, 0.022mfd, Z
C106	22342223	CD, 0.022mfd, Z
C107	22446479	EL, 4.7mfd/25WV
C108	22448109	EL, 1mfd/50WV
C109	22448109	EL, 1mfd/50WV
C110	22448109	EL, 1mfd/50WV
C111	22448109	EL, 1mfd/50WV
C112	22448109	EL, 1mfd/50WV
C113	22448109	EL, 1mfd/50WV
C114	22391302	PF, 3000PF, J
C115	22362500	CD, 50PF, K
C116	22361150	CD, 15PF, J
C117	22362500	CD, 50PF, K
C118	22342223	CD, 0.022mfd, Z
C119	22391472	PF, 4700PF, J
C120	22391271	PF, 270PF, J
C121	22391131	PF, 130PF, J
C122	22362500	CD, 50PF, D
C123	22360341	CD, 5PF, D
C124	22362800	CD, 80PF, K
C125	22361100	CD, 10PF, D
C126	22372222	CD, 0.0022mfd, M
C127	22372103	PF, 0.01mfd, K
C128	22372223	PF, 0.022mfd, K
C129	22342473	CD, 0.047mfd, Z
C130	22342103	CD, 0.01mfd, Z
C131	22342223	CD, 0.022mfd, Z
C132	22342473	CD, 0.047mfd, Z
C201	22448109	EL, 1mfd/50WV
C202	22361301	CD, 300PF, K
C204	22342473	CD, 0.047mfd, Z
C205	22445221	EL, 220mfd/16WV
C206	22445470	EL, 47mfd/16WV
C207	22342223	CD, 0.022mfd, Z
C208	22446479	EL, 4.7mfd/25WV
C209	22342473	CD, 0.047mfd, Z
C210	22445100	EL, 10mfd/16WV
C211	22445470	EL, 47mfd/16WV
C212	22372223	PF, 0.022mfd, K
C213	22372332	CD, 0.0033mfd, K
C215	22371272	PF, 0.0027mfd, J
C216	22371272	PF, 0.0027mfd, J
C301	22446221	EL, 220mfd/25WV
C302	22446221	EL, 220mfd/25WV
C303	22440140	EL, 0.22mfd/50WV
C304	22440140	EL, 0.22mfd/50WV
C305	22361200	CD, 20PF, J
C306	22361200	CD, 20PF, J
C307	22440116	EL, 0.47mfd/50WV
C308	22440116	EL, 0.47mfd/50WV
C309	22361200	CD, 20PF, J
C310	22361200	CD, 20PF, J
C311	22446221	EL, 220mfd/25WV
C401	22440140	EL, 0.22mfd/50WV
C402	22440140	EL, 0.22mfd/50WV
C403	22440107	EL, 10mfd/25WV
C404	22440107	EL, 10mfd/25WV
C405	22372473	PF, 0.047mfd, K
C406	22372473	PF, 0.047mfd, K
C407	22361200	CD, 20PF, J
C408	22361200	CD, 20PF, J
C409	22445470	EL, 47mfd/16WV
C410	22445470	EL, 47mfd/16WV
C411	22446101	EL, 100mfd/25WV
C412	22446101	EL, 100mfd/25WV
C413	22440142	EL, 4.7mfd/50WV
C414	22440142	EL, 4.7mfd/50WV
C415	22371153	PF, 0.015mfd, J
C416	22371153	PF, 0.015mfd, J
C417	22371104	PF, 0.1mfd, J
C418	22371104	PF, 0.1mfd, J
C419	22371392	PF, 0.0039mfd, J
C420	22371392	PF. 0.0039mfd. J
C421	22371333	PF, 0.033mfd, J
C422	22371333	PF, 0.033mfd, J
C501	22403069	EL, 0.47mfd/50WV
C502	22403069	EL, 0.47mfd/50WV
C503	22362301	CD, 300PF, K
C504	22362301	CD, 300PF, K
C505	22440195	EL, 47mfd/16WV
C506	22440195	EL, 47mfd/16WV
C507	22446470	EL, 47mfd/25WV
C508	22446470	EL, 47mfd/25WV
C509	22443101	EL, 100mfd/10WV
C510	22443101	EL, 100mfd/10WV
C511	22361400	CD, 40PF, K
C512	22361400	CD, 40PF, K
C513	22342473	CD, 0.047mfd, Z
C514	22342473	CD, 0.047mfd, Z
C515	22445470	EL, 47mfd/16WV
C516	22445470	EL, 47mfd/16WV
C517	22446101	EL, 100mfd/25WV
C518	22446101	EL, 100mfd/25WV
C519	22342473	CD, 0.047mfd, Z

Symbol No.	Part No.	Description
C520	22342473	CD, 0.047mfd, Z
C521	22362301	CD, 300PF, K
C522	22362301	CD, 300PF' K
C601	22391681	PF, 680PF, J
C602	22391681	PF, 680PF, J
C603	22440142	EL, 4.7mfd/50WV
C604	22440142	EL, 4.7mfd/50WV
C605	22440165	EL, 22mfd/16WV
C606	22440165	EL, 22mfd/16WV
C607	22362301	CD, 300PF, K
C608	22362301	CD, 300PF, K
C609	22440165	EL, 22mfd/16WV
C610	22440165	EL, 22mfd/16WV
C611	22362101	CD, 100PF, K
C612	22362101	CD, 100PF, K
C613	22361509	CD, 5PF, D
C614	22361509	CD, 5PF, D
C615	22445220	EL, 22mfd/16WV
C616	22445220	EL, 22mfd/16WV
C617	22446479	EL, 4.7mfd/25WV
C618	22446479	EL, 4.7mfd/25WV
C619	22446479	EL, 4.7mfd/25WV
C620	22446479	EL, 4.7mfd/25WV
C621	22371103	PF, 0.01mfd, J
C622	22371103	PF, 0.01mfd, J
C623	22371183	PF, 0.018mfd, J
C624	22371183	PF, 0.018mfd' J
C625	22446101	EL, 100mfd/25WV
C626	22446101	EL, 100mfd/25WV
C627	22391301	PF, 300PF, J
C628	22391301	PF, 300PF, J
C629	22446479	EL, 4.7mfd/25WV
C630	22446479	EL, 4.7mfd/25WV
C631	22440145	EL, 0.33mfd/50WV
C632	22440145	EL, 0.33mfd/50WV
C633	22440144	EL, 1mfd/50WV
C634	22440144	EL, 1mfd/50WV
C635	22445470	EL, 47mfd/16WV
C636	22445470	EL, 47mfd/16WV
C637	22372122	PF, 0.0012mfd, K
C638	22372122	PF, 0.0012mfd, K
C639	22371393	PF, 0.039mfd, J
C640	22371393	PF, 0.039mfd, J
C641	22371333	PF, 0.033mfd, J
C642	22371333	PF, 0.033mfd, J
C643	22371183	PF, 0.018mfd, J
C644	22371183	PF, 0.018mfd, J
C645	22446479	EL, 4.7mfd/25WV
C646	22446479	EL, 4.7mfd/25WV
C647	22448109	EL, 1mfd/50WV
C648	22448109	EL, 1mfd/50WV
C651	22446101	EL, 100mfd/25WV
C652	22447221	EL, 220mfd/35WV
C653	22342473	CD, 0.047mfd, Z
C654	22342473	CD, 0.047mfd, Z
C655	22342473	CD, 0.047mfd, Z
C701	22372222	PF, 0.0022mfd, K
C702	22372333	PF, 0.033mfd, K
C703	22372104	PF, 0.1mfd, K
C704	22321093	PF, 15000PF, J

Symbol No.	Part No.	Description
C705	22321114	PF, 1500PF, J
C706	22362301	CD, 300PF, K
C707	22362301	CD, 300PF, K
C751	22372102	PF, 0.001mfd, K
C752	22362101	CD, 100PF, K
C753	22342223	CD, 0.022mfd
C801	22443221	EL, 220mfd/10WV
C802	22443221	EL, 220mfd/10WV
C803	22443221	EL, 220mfd/10WV
C804	22443101	EL, 100mfd/10WV
C805	22342103	CD, 0.01mfd, Z
C806	22445470	EL, 47mfd/16WV
C811	22447220	EL, 22mfd/35WV
C812	22446470	EL, 47mfd/25WV
C813	22447220	EL, 22mfd/35WV
C814	22448109	EL, 1mfd/50WV

RESISTORS

Abbreviate Symbols....CF:Carbon Film, OMF:Oxide Metal Film
Tolerance....J: ±5%, K: ±10%
All CF resistors are J 1/4W unless otherwise noted.

R001	22500162	Fusible 10 ohm, 1W, J
R002	22570156	OMF, 1k ohm, 1W, J
R003	22570182	OMF, 10 ohm, 2W, J
R004	22570182	OMF, 10 ohm, 2W, J
R005	22543471	CF, 470 ohm 1/8W
R009	22573181	OMF, 180 ohm, 2W, J
R010	22573181	OMF, 180 ohm, 2W, J
R101	22547122	CF, 1.2k ohm, 1/2W
R102	22545471	CF, 470 ohm
R103	22545222	CF, 2.2k ohm
R105	22545684	CF, 680k ohm
R106	22545105	CF, 1M ohm
R107	22545182	CF, 1.8k ohm
R108	22545153	CF, 15k ohm
R109	22545102	CF, 1k ohm
R110	22545182	CF, 1.8k ohm
R111	22545223	CF, 22k ohm
R112	22545682	CF, 6.8k ohm
R113	22545152	CF, 1.5k ohm
R115	22545271	CF, 270 ohm
R116	22545223	CF, 22k ohm
R117	22545272	CF, 2.7k ohm
R118	22545821	CF, 820 ohm
R119	22545822	CF, 8.2k ohm
R120	22545222	CF, 2.2k ohm
R121	22545221	CF, 220 ohm
R122	22545223	CF, 22k ohm
R123	22545220	CF, 22 ohm
R201	22545102	CF, 1k ohm
R202	22545102	CF, 1k ohm
R203	22500131	Cement, 120 ohm, 5W
R204	22545182	CF, 1.8k ohm
R205	22545562	CF, 5.6k ohm
R206	22545393	CF, 39k ohm
R207	22545471	CF, 470 ohm
R208	22570218	OMF, 2.2k ohm, 1W, J
R209	22545272	CF, 2.7k ohm

Symbol No.	Part No.	Description
R210	22545333	CF, 33k ohm
R211	22545562	CF, 5.6k ohm
R212	22547332	CF, 3.3k ohm, 1/2W
R213	22545223	CF, 22k ohm
R214	22545473	CF, 47k ohm
R215	22545333	CF, 33k ohm
R216	22545333	CF, 33k ohm
R217	22545823	CF, 82k ohm
R218	22545823	CF, 82k ohm
R219	22545393	CF, 39k ohm
R220	22545681	CF, 680 ohm
R221	22545561	CF, 560 ohm
R222	22545561	CF, 560 ohm
R223	22545333	CF, 33k ohm
R301	22545224	CF, 220k ohm
R302	22545224	CF, 220k ohm
R303	22545102	CF, 1k ohm
R304	22545102	CF, 1k ohm
R305	22541564	CF, 560k ohm Low Noise
R306	22541564	CF, 560k ohm Low Noise
R307	22541154	CF, 150k ohm Low Noise
R308	22541154	CF, 150k ohm Low Noise
R309	22545332	CF, 3.3k ohm
R310	22545332	CF, 3.3k ohm
R311	22545153	CF, 15k ohm
R312	22545153	CF, 15k ohm
R313	22545153	CF, 15k ohm
R314	22545153	CF, 15k ohm
R315	22545153	CF, 15k ohm
R316	22545153	CF, 15k ohm
R317	22545823	CF, 82k ohm
R318	22545823	CF, 82k ohm
R319	22545123	CF, 12k ohm
R320	22545123	CF, 12k ohm
R321	22545334	CF, 330k ohm
R322	22545334	CF, 330k ohm
R323	22571222	OMF, 2.2k ohm 1W, J
R324	22571222	OMF, 2.2k ohm 1W, J
R325	22545822	CF, 8.2k ohm
R326	22545822	CF, 8.2k ohm
R327	22545683	CF, 68k ohm
R328	22545683	CF, 68k ohm
R329	22570156	OMF, 1k ohm 1W, J
R401	22545102	CF, 1k ohm
R402	22545102	CF, 1k ohm
R403	22545473	CF, 47k ohm
R404	22545473	CF, 47k ohm
R405	22541105	CF, 1M ohm Low Noise
R406	22541105	CF, 1M ohm Low Noise
R407	22541124	CF, 120k ohm Low Noise
R408	22541124	CF, 120k ohm Low Noise
R409	22545472	CF, 4.7k ohm
R410	22545472	CF, 4.7k ohm
R411	22545682	CF, 6.8k ohm
R412	22545682	CF, 6.8k ohm
R413	22545392	CF, 3.9k ohm
R414	22545392	CF, 3.9k ohm
R415	22545183	CF, 18k ohm
R416	22545183	CF, 18k ohm
R417	22545393	CF, 39k ohm
R418	22545393	CF, 39k ohm
R419	22545681	CF, 680 ohm
R420	22545681	CF, 680 ohm

Symbol No.	Part No.	Description
R421	22545472	CF, 4.7k ohm
R422	22545472	CF, 4.7k ohm
R423	22545123	CF, 12k ohm
R424	22545123	CF, 12k ohm
R425	22545272	CF, 2.7k ohm
R426	22545272	CF, 2.7k ohm
R427	22545222	CF, 2.2k ohm
R428	22545222	CF, 2.2k ohm
R501	22553564	CF, 560k ohm, 1/8W, J
R502	22553564	CF, 560k ohm, 1/8W, J
R503	22553102	CF, 1k ohm, 1/8W, J
R504	22553102	CF, 1k ohm, 1/8W, J
R505	22553563	CF, 56k ohm, 1/8W, J
R506	22553563	CF, 56k ohm, 1/8W, J
R507	22553103	CF, 10k ohm, 1/8W, J
R508	22553103	CF, 10k ohm, 1/8W, J
R509	22553152	CF, 1.5k ohm, 1/8W, J
R510	22553152	CF, 1.5k ohm, 1/8W, J
R511	22570241	OMF, 39k ohm, 1/4W, G
R512	22570241	OMF, 39k ohm, 1/4W, G
R513	22570233	OMF, 2.2k ohm, 1/4W, G
R514	22570233	OMF, 2.2k ohm, 1/4W, G
R515	22553102	CF, 1k ohm, 1/8W, J
R516	22553102	CF, 1k ohm, 1/8W, J
R517	22553332	CF, 3.3k ohm, 1/8W, J
R518	22553332	CF, 3.3k ohm, 1/8W, J
R519	22553272	CF, 2.7k ohm, 1/8W, J
R520	22553272	CF, 2.7k ohm, 1/8W, J
R521	22553122	CF, 1.2k ohm, 1/8W, J
R522	22553122	CF, 1.2k ohm, 1/8W, J
R523	22553470	CF, 47 ohm, 1/8W, J
R524	22553470	CF, 47 ohm, 1/8W, J
R525	22553221	CF, 220 ohm, 1/8W, J
R526	22553221	CF, 220 ohm, 1/8W, J
R527	22500056	Cement, 0.5 ohm, 1W, K
R528	22500056	Cement, 0.5 ohm, 1W, K
R529	22500056	Cement, 0.5 ohm, 1W, K
R530	22500056	Cement, 0.5 ohm, 1W, K
R531	22553472	CF, 4.7k ohm, 1/8W, J
R532	22553472	CF, 4.7k ohm, 1/8W, J
R533	22500163	Fusible, 47 ohm, 1/2W, J
R534	22500163	Fusible, 47 ohm, 1/2W, J
R601	22545100	CF, 10 ohm
R602	22545100	CF, 10 ohm
R603	22545822	CF, 8.2k ohm
R604	22545822	CF, 8.2k ohm
R605	22545331	CF, 330 ohm
R606	22545331	CF, 330 ohm
R607	22545823	CF, 82k ohm
R608	22545823	CF, 82k ohm
R609	22545104	CF, 100k ohm
R610	22545104	CF, 100k ohm
R611	22545224	CF, 220k ohm
R612	22545224	CF, 220k ohm
R613	22545563	CF, 56k ohm
R614	22545563	CF, 56k ohm
R615	22545181	CF, 180 ohm
R616	22545181	CF, 180 ohm
R617	22545563	CF, 56k ohm
R618	22545563	CF, 56k ohm
R619	22545683	CF, 68k ohm
R620	22545683	CF, 68k ohm
R621	22545334	CF, 330k ohm

Symbol No.	Part No.	Description
R622	22545334	CF, 330k ohm
R623	22545223	CF, 22k ohm
R624	22545223	CF, 22k ohm
R625	22545181	CF, 180 ohm
R626	22545181	CF, 180 ohm
R627	22545682	CF, 6.8k ohm
R628	22545682	CF, 6.8k ohm
R629	22545392	CF, 3.9k ohm
R630	22545392	CF, 3.9k ohm
R631	22545333	CF, 33k ohm
R632	22545333	CF, 33k ohm
R633	22545105	CF, 1M ohm
R634	22545105	CF, 1M ohm
R635	22545682	CF, 6.8k ohm
R636	22545682	CF, 6.8k ohm
R637	22545272	CF, 2.7k ohm
R638	22545272	CF, 2.7k ohm
R639	22545392	CF, 3.9k ohm
R640	22545392	CF, 3.9k ohm
R641	22545153	CF, 15k ohm
R642	22545153	CF, 15k ohm
R643	22545122	CF, 1.2k ohm
R644	22545122	CF, 1.2k ohm
R645	22545474	CF, 470k ohm
R646	22545474	CF, 470k ohm
R647	22545331	CF, 330 ohm
R648	22545331	CF, 330 ohm
R649	22545391	CF, 390 ohm
R650	22545391	CF, 390 ohm
R651	22545102	CF, 1k ohm
R652	22545102	CF, 1k ohm
R653	22545562	CF, 5.6k ohm
R654	22545562	CF, 5.6k ohm
R655	22545682	CF, 6.8k ohm
R656	22545682	CF, 6.8k ohm
R657	22545105	CF, 1M ohm
R658	22545105	CF, 1M ohm
R659	22545823	CF, 82k ohm
R660	22545823	CF, 82k ohm
R661	22545103	CF, 10k ohm
R662	22545103	CF, 10k ohm
R663	22545681	CF, 680 ohm
R664	22545681	CF, 680 ohm
R665	22545183	CF, 18k ohm
R666	22545183	CF, 18k ohm
R667	22545272	CF, 2.7k ohm
R668	22545272	CF, 2.7k ohm
R669	22545472	CF, 4.7k ohm
R670	22545472	CF, 4.7k ohm
R671	22545153	CF, 15k ohm
R672	22545153	CF, 15k ohm
R673	22545122	CF, 1.2k ohm
R674	22545122	CF, 1.2k ohm

Symbol No.	Part No.	Description
R675	22545393	CF, 39k ohm
R676	22545393	CF, 39k ohm
R677	22545334	CF, 330k ohm
R678	22545334	CF, 330k ohm
R679	22545222	CF, 2.2k ohm
R680	22545222	CF, 2.2k ohm
R681	22545560	CF, 56 ohm
R682	22545560	CF, 56 ohm
R683	22545103	CF, 10k ohm
R684	22545103	CF, 10k ohm
R685	22570452	OMF, 330 ohm, 3W, J
R686	22547332	CF, 3.3k ohm, 1/2W, J
R687	22547332	CF, 3.3k ohm, 1/2W, J
R688	22547332	CF, 3.3k ohm, 1/2W, J
R689	22547392	CF, 3.9k ohm, 1/2W, J
R690	22547392	CF, 3.9k ohm, 1/2W, J
R691	22547182	CF, 1.8k ohm, 1/2W, J
R702	22545100	CF, 10 ohm
R703	22545100	CF, 10 ohm
R704	22545683	CF, 68k ohm
R705	22545391	CF, 390 ohm
R706	22545109	CF, 1 ohm
R707	22547681	CF, 680 ohm, 1/2W
R752	22545220	CF, 22 ohm
R753	22545332	CF, 3.3k ohm
R754	22545104	CF, 100k ohm
R755	22545473	CF, 47k ohm
R756	22545473	CF, 47k ohm
R757	22545153	CF, 15k ohm
R758	22545153	CF, 15k ohm
R759	22545270	CF, 27 ohm
R760	22545820	CF, 82 ohm
R761	22545332	CF, 3.3k ohm
R762	22545105	CF, 1M ohm
R763	22545335	CF, 3.3M ohm
R801	22545181	CF, 180 ohm
R802	22545100	CF, 10 ohm
R803	22545562	CF, 5.6k ohm
R804	22545153	CF, 15k ohm
R805	22545223	CF, 22k ohm
R811	22545334	CF, 330k ohm
R812	22545124	CF, 120k ohm
R813	22545224	CF, 220k ohm
R814	22545221	CF, 220 ohm

ACCESSORIES PARTS		
	20971652	45 rpm Adaptor
	22953853	Owner's Manual
	22124267	FM Antenna
	22154176	Microphone (For United Kingdom only)

TOSHIBA CORPORATION

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PRINTED IN JAPAN September 1978 22955743 Ⓢ